111111111	RRPRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
111111111	RRRRRRRRRRRR
111	RRR RRR

111	RRR RRR
111	RRRRRRRRRRR
111	RRRRRRRRRRR
111	RRRRRRRRRRR
111	RRR RRR
111111111	RRR RRR
111111111	RRR RRR
	RRR RRR

_\$

DIF

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRR RR	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	######################################	000000 00 00 00 00	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
	\$				

VAX-11 Bliss-32 V4.0-742 CDIR.SRCJDIRECTORY.B32:1

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VO

MODULE DIRECTORY (LANGUAGE (BLISS32), IDENT = 'V04-000', MAIN = DIRSMAIN

BEGIN

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FACILITY:

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DIRECTORY

ABSTRACT:

This module contains the main processing routine for the directory command. It also contains various error reporting routines.

ENVIRONMENT:

VAX/VMS operating system, unprivileged user mode utilities.

AUTHOR:

L. Mark Pilant

CREATION DATE: 3-Mar-1983

MODIFIED BY:

LMP0296 L. Mark Pilant, 6-Aug-1984 12:54 Note the hack to get /FULL to work with the magtape ACP. V03-020 LMP0296

L. Mark Pilant, 19-Jul-1984 12 Give the correct text on the DIRS_SYNTAX error message. V03-019 LMP0280 19-Jul-1984 12:54

V03-018 LMP0276

L. Mark Pilant,

11-Jul-1984 11:51

L. Mark Pilant,

Benn Schreiber

L. Mark Pilant,

number of columns able to be printed in a display.

L. Mark Pilant,

L. Mark Pilant,

message. Also, add support for RMS journaling.

L. Mark Pilant,

Add support for a unique message file.

LMP0119 L. Mark Pilant, Add support for identifiers.

Use enhanced libsfile_scan features for stickyness

Correct a bug in the formatting uncovered by the fix in LMP0176.

LMP0176 L. Mark Pilant, 6-Dec-1983 8:54 Correct an incorrect piece of logic used to determine the

Correct a bug that caused the size selection item to be

LMP0132 L. Mark Pilant, 3-Aug-1983 10:19 Correct the qualifier keyword COLUMN to be COLUMNS to match

LMP0108 L. Mark Pilant, 28-Apr-1983 10:49 Issue a DIRECTORY message if no files are found, not an RMS

Fix some minor logic problems that occurred when the display

LMP0182 L. Mark Pilant, 11-Jan-1984 12:43
Note the use of the /SELECT qualifier with an appropriate flag.

10-Mar-1984 12:44

12-Dec-1983 9:42

23-Nov-1983 10:39

27-Sep-1983 10:45

15-Jun-1983 9:29

14-Apr-1983 11:49

25-Jan-1984

0077 0078

0079

0080

008 0082 0083

0084 0085 0086

V03-013 LMP0211

V03-012 BLS0265

V03-011 LMP0182

V03-010 LMP0180

V03-009 LMP0176

V03-007 LMP0157

V03-006 LMP0132

V03-005 LMP0119

V03-003 LMP0100

logic was changed.

dropped on the floor.

the documentation.

DIF VO

(1)

DIRECTORY VO4-000		15-50 14-50	p-1984 23:38:58 p-1984 12:19:31	VAX-11 BLiss-32 V4.0-742 CDIR.SRCJDIRECTORY.B32;1	Page (1
115 116 117 118 119 120 121 122 123 124 125 126	0115 1 ! 0116 1 ! 0117 1 ! 0118 1 ! 0119 1 ! 0120 1 ! 0121 1 ! 0122 1 !	Wisc fixups. V03-002 LMP0096 L. Mark Pilar Correctly handle locked file V03-001 LMP0092 L. Mark Pilar Include the FHC XAB when /SI the handling of the final er	t. 29-1	Mar-1983 10:01	
126	0126 1 LIBRARY 0127 1 REQUIRE	'SYS\$LIBRARY:LIB': 'SRC\$:DIRECTDEF':			

DI VO

12312345678901234567890123 11133356789012344444678901234567890123

HACKS WORTH NOTING ...

There are several hacks used by DIRECTORY to improve performance and to compensate for bugs elsewhere in the system.

The first is mechanism that allows the file information requested in the RMS XAB blocks to be filled in while performing a \$SEARCH over the network. If the NAM block attached to the FAB doing the \$SEARCH has the NOP bit NAMSV_SRCHXABS set, then any XABs attached to the FAB will have the requested information filled in if it is available.

The next is used by LIB\$FILE_SCAN to improve performance. Doing a \$SEARCH operation over the network involves a considerable ammount of startup overhead (to make the connection). Therefore, LIB\$FILE_SCAN will only do the network \$SEARCH operation if there are wildcard characters present (as determined by the previous \$PARSE). This means that if there are XABs to be filled, and no wildcards are present in the filespec, it is necessary to issue an explicit \$SEARCH (outside of LIB\$FILE_SCAN).

Another hack used here is to not explicitly link with SECURESHR, which contains the format acl service. Rather, we auto-load it using lib\$find_image_symbol only if /acl or /full is present. This gives a reduction in activation time in the case we don't need to format any acls.

The last hack is to make /fULL work with the magtape ACP. There is a bug in the magtape ACP encountered when doing wildcarding and accessing by file name to the same tape drive. The access by name causes the magtape ACP to loose the wildcard context, resulting in an infinite loop. This is corrected in DIRECTORY by accessing the file by "file-ID" even when /fULL is specified, if the device is a sequential device.

: ADDRESSING_MODE (GENERAL); ! Set up select

LIB\$QUAL_FILE_PARSE

VO

Page

! Get information about a file

```
DIRECTORY
VO4-000
                                                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.B32;1
                                                                                                                                                                                                                                                                                                    Page
                                                                          DIRSTOTAL,
DIRSGRAND TOTAL,
LIBSCYT_DTB
                                                                                                                                                                             Type out per directory totals
Type out grand total info

! Convert string to value
       : ADDRESSING_MODE (GENERAL);
: ADDRESSING_MODE (GENERAL);
                                                                                                                                                                                           ! Convert string to value ! Allocate dynamic memory
                                                                           LIBSGET_VM
                                                        ! DIRECTORY error messages
                                                        EXTERNAL LITERAL DIRS NOFILES;
                                                        ! Initialize all variables
                                                       SCAN_CONTEXT = 0;
QUAL_FLAGS = 0;
WORST_ERROR = 3S$_NORMAL;
                                                     WORST ERROR = 3S$_NORMAL;
CHANNEL = 0;
CH$fill (0, NAMSC_DVI, DEVICE_NAME);
COLUMN COUNT = COLUMN INDEX = COLUMN_WIDTH = 0;
VERSION_COUNT = VERSION_INDEX = 0;
PREV_DIR_LEN = PREV_FILE_LEN = 0;
TOTAL_USED = TOTAL_ALLOC = TOTAL_FILES = 0;
GRAND_USED = GRAND_ALLOC = GRAND_FILES = GRAND_DIRS = 0;
COLUMN_WIDTH = 0;
INDEV_CLASS = INDEV_BUFSIZ = 0;
FIRST_XAB = XAB_PTR = 0;
CH$fill (0, DSC$C_S_BLN, VALUE_DESC);
VALUE_DESC[DSC$B_CLASS] = DSC$R_CLASS_D;
CH$MOVE (DSC$C_S_BLN, VALUE_DESC, FILE_DESC);
CH$MOVE (DSC$C_S_BLN, VALUE_DESC, LINE_DESC);
LINE_DESC[DSC$A_POINTER] = [INE_BUFFER;
                                                       ! Get the block of memory needed to hold the display information.
                                                       STATUS = LIBSGET_VM (%REF (DIR_C_LENGTH), DISPLAY_BLOCK);
IF NOT .STATUS
                                                       THEN
                                                                 BEGIN
                                                                 SIGNAL (.STATUS);
                                                                 RETURN . WORST_ERROR;
                                                       ! Initialize all RMS data structures.
                                                                                             (FAB = INPUT_FAB,
DNA = UPLIT ('*.*;*'),
DNS = %CHARCOUNT ('*.*;*'),
                                                        SFAB_INIT
                                                                                                                                                                        ! Init input structures
                                                                                             NAM = INPUT_NAM);
(NAM = INPUT_NAM,
ESA = INP_EXP_NAM,
ESS = NAMSC_MAXRSS,
RSA = INP_RES_NAM,
RSS = NAMSC_MAXRSS);
                                                        SNAM_INIT
                                    0701
0702
0703
                                                       SFAB_INIT
                                                                                             (FAB = OUTPUT FAB, ! In
DNA = UPLIT ('DIRECTORY.LIS'),
DNS = %CHARCOUNT ('DIRECTORY.LIS'),
FAC = PUT,
                                                                                                                                                                         ! Init output structures
```

```
DIRECTORY
VO4-000
                                                                                                                            VAX-11 Bliss-32 V4.0-742
[DIR.SRC]DIRECTORY.B32;1
                                                                                                                                                                               Page
    307
308
309
                                                          FOP = SQO,
NAM = OUTPUT_NAM,
                                                          RAT = (R);
                                                        (RAB = OUTPUT_RAB,
FAB = OUTPUT_FAB);
(NAM = OUTPUT_NAM,
                      0708
0709
0710
0711
0712
0713
    310
                                  SRAB_INIT
    SNAM_INIT
                                                          ESA = OUT EXP NAM,
ESS = NAMSC_MAXRSS,
                                                          RSA = OUT_RES_NAM
                                                          RSS = NAMSC_MAXRSS);
                                    Parse the various command qualifiers that may have been given on the
                                    command line.
                      First check for any of the common qualifiers to determine what XABs
                                    may be needed.
                                 IF CLISPRESENT (SDESCRIPTOR ('BEFORE'))
OR CLISPRESENT (SDESCRIPTOR ('SINCE'))
                                  THEN
                                       BEGIN
                                       QUAL_FLAGS[DIR_V_NEED_DAT] = 1;
QUAL_FLAGS[DIR_V_COMM_QUAL] = 1;
                                                                                                     ! DAT XAB required
                                  IF CLISPRESENT (SDESCRIPTOR ('BY_OWNER'))
                                  THEN
                                       BEGIN
                                       QUAL_FLAGS[DIR_V_NEED_PRO] = 1;
QUAL_FLAGS[DIR_V_COMM_QUAL] = 1;
                                                                                                     ! PRO XAB required
                                  ! Now check for all the display tayloring qualifiers
                                 QUAL_FLAGS[DIR_V_QUAL_ACL] = CLISPRESENT (SDESCRIPTOR ('ACL'));
QUAL_FLAGS[DIR_V_QUAL_BRIE] = CLISPRESENT (SDESCRIPTOR ('BRIEF'));
IF (CLI_STATUS = QUAL_FLAGS[DIR_V_QUAL_COLU] = CLISPRESENT (SDESCRIPTOR ('COLUMNS')))
                                  THEN
                                       BEGIN
                                       IF NOT .STATUS OR .COLUMN_COUNT LSS O
                                        THEN
                                             SIGNAL (DIRS SYNTAX, 1, VALUE_DESC);
RETURN .WORST_ERROR;
                                             END:
                                        IF .COLUMN_COUNT EQL O THEN COLUMN_COUNT = 1:
IF .CLI_STATUS EQL CLIS_DEFAULTED THEN QUAL_FLAGS[DIR_v_colu_def] = 1;
                                  IF (QUAL_FLAGS[DIR_V_QUAL_DATE] = CLISPRESENT (SDESCRIPTOR ('DATE')))
                                  THEN
                                        BEGIN
                                        QUAL FLAGS[DIR V NEED DAT] = 1;
IF ([ISPRESENT (SDESCRIPTOR ('DATE.ALL'))
                                                                                                      ! DAT XAB required
```

VC

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```
M 14
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.832:1
                          THEN
    BEGIN
                                                     QUAL FLAGS[DIR V DATE CRE] = 1;
QUAL FLAGS[DIR V DATE EXP] = 1;
QUAL FLAGS[DIR V DATE MOD] = 1;
QUAL FLAGS[DIR V DATE BAK] = 1;
COLUMN_WIDTH = .COLUMN_WIDTH + 19 = 4;
                                              ELSE
                                                     IF CLISPRESENT (SDESCRIPTOR ('DATE.CREATED'))
                                                     THEN
                                                            BEGIN
                                                            QUAL FLAGS[DIR_V_DATE_CRE] = 1;
COLUMN_WIDTH = .COLUMN_WIDTH + 19;
                                                     END;
IF CLISPRESENT (SDESCRIPTOR ('DATE.EXPIRED'))
                                                     THEN
                                                            BEG1N
                                                           QUAL FLAGS[DIR V DATE EXP] = 1;
COLUMN WIDTH = .COLUMN WIDTH + 19;
                                                     IF CLISPRESENT (SDESCRIPTOR ('DATE.MODIFIED'))
                                                     THEN
                                                            BEGIN
                                                           QUAL FLAGS[DIR_V_DATE MOD] = 1;
COLUMN_WIDTH = .COLUMN_WIDTH + 19;
                                                     IF CLISPRESENT (SDESCRIPTOR ('DATE.BACKUP'))
                                                     THEN
                                                           BEGIN
                                                           QUAL FLAGS[DIR_V_DATE BAK] = 1;
COLUMN_WIDTH = .COLUMN_WIDTH + 19;
                                                           END:
                                                     END;
                                       IF (QUAL FLAGS[DIR v QUAL FID] = CLISPRESENT (SDESCRIPTOR ('FILE_ID')))
THEN COLOMN WIDTH = .COLUMN WIDTH + 21:
IF (QUAL FLAGS[DIR v QUAL FOLL] = CLISPRESENT (SDESCRIPTOR ('FULL')))
                                        THEM
                                              BEGIN
                                             QUAL FLAGS[DIR V NEED FHC] = QUAL FLAGS[DIR V NEED DAT] = 1:
QUAL FLAGS[DIR V NEED PRO] = QUAL FLAGS[DIR V NEED SUM] = 1:
QUAL FLAGS[DIR V NEED JNL] = 1:
                                              END:
                                       QUAL_FLAGS[DIR_V_QUAL_GRAN] = CLISPRESENT (SDESCRIPTOR ('GRAND TOTAL'));
QUAL_FLAGS[DIR_V_QUAL_HEAD] = CLISPRESENT (SDESCRIPTOR ('HEADING'));
    410
                                           /PRINTER is checked out of sequence because it may affect how /OUTPUT is
                                          handled.
    414
                                        if (qual_flags[d]r_v_qual_prin] = Clispresent (sdescriptor ('printer'));
    416
                                        THEN
    418
                                              OUTPUT FAB(FABSV SPL) = 1:
OUTPUT FAB(FABSV DLT) = 1;
                                                                                                                          Spool file when closed.
                                                                                                                          Delete file after printing
     420
                                              END:
```

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D
```

```
N 14
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.B32;1
                                          If (CLI_STATUS = QUAL_FLAGS[DIR_V_QUAL_OUTP] = CLISPRESENT (SDESCRIPTOR ('OUTPUT')))
THEN
                           BEGIN
                                                 CLISGET_VALUE (SDESCRIPTOR ('OUTPUT'), FILE DESC);
OUTPUT_FAB[FABSL_FNA] = _FILE_DESC[DSCSA_POINTER];
IF (OUTPUT_FAB[FABSB_FNS] = _FILE_DESC[DSCSw_LENGTH]) EQL O
AND_NOT .QUAL_FLAGS[DIR_v_qual_PRIN]
                                                        BEGIN
                                                        OUTPUT_FAB[FAB$L_FNA] = UPLIT ('SYS$OUTPUT:');
OUTPUT_FAB[FAB$B_FNS] = %CHARCOUNT ('SYS$OUTPUT:');
                                                 END
                                          ELSE
                                                      .CLI_STATUS EQL CLIS_NEGATED
                                                 THEN
                                                      BEGIN
OUTPUT_FAB[FAB$L_FNA] = UPLIT ('NL:');
OUTPUT_FAB[FAB$B_FNS] = %CHARCOUNT ('NL:');
OUTPUT_FAB[FAB$V_SPL] = 0;
OUTPUT_FAB[FAB$V_DLT] = 0;
                                               (QUAL_FLAGS[DIR_V_QUAL_OWNE] = CLISPRESENT (SDESCRIPTOR ('OWNER')))
                                          THEN
                                                 BEGIN
                                                 QUAL_FLAGS[DIR_V_NEED_PRO] = 1;
QUAL_FLAGS[DIR_V_USE_ID] = CLISPRESENT (SDESCRIPTOR ('OWNER.IDENTIFIER'));
                                          IF (QUAL_FLAGS[DIR_V_QUAL_PROT] = CLISPRESENT (SDESCRIPTOR ('PROTECTION')))
                                          THEN
                                                 BEGIN
                                                 QUAL FLAGS[DIR V NEED PRO] = 1;
COLUMN_WIDTH = .COLUMN_WIDTH + 23;
                                          IF (QUAL_FLAGS[DIR_V_QUAL_SECU] = CLISPRESENT (SDESCRIPTOR ('SECURITY')))
                                          THEN
                                                BEGIN
QUAL FLAGS[DIR_V_NEED_PRO] = 1;
QUAL_FLAGS[DIR_V_QUAL_ACL] = QUAL_FLAGS[DIR_V_QUAL_PROT] = 1;
QUAL_FLAGS[DIR_V_QUAL_PROT] = 1;
                                                 BEGIN
                                          END;
IF CLISPRESENT (SDESCRIPTOR ('SELECT'))
                           0862
0863
0864
0865
0866
0867
0868
0869
0871
0872
0873
0874
                                          THEN
                                                 BEGIN
                                                 MIN_BLOCK = 0:

MAX_BLOCK = 1073741823;

IF CLISPRESENT (SDESCRIPTOR ('SELECT.SIZE.MINIMUM_SIZE'))
                                                 THEN
                                                       QUAL FLAGS[DIR V SELE SIZE] = 1;

CLISGET VALUE TSDESCRIPTOR ('SELECT.SIZE.MINIMUM_SIZE'), VALUE_DESC);

STATUS = LIBSCVT_DTB (.VALUE_DESC[DSCSW_LENGTH],

.VALUE_DESC[DSCSA_POINTER],

MIN_BLO(K);
```

Page

CLISGET_VALUE (SDESCRIPTOR ('WIDTH.DISPLAY'), VALUE_DESC);

STATUS = LIBSCYT_DTB (.VALUE_DESCLOSC \$W_LENGTH],

.....

```
DIRECTORY
VO4-000
                                                                                                                       .VALUE DESCEDSCSA_POINTER], DISPLAT_WIDTH);
                                      09335678909938909939955789099557890995773456789988345678989
                                                                    IF NOT .STATUS OR .DISPLAY_WIDTH LSS O
                                                                    THEN
                                                                             BEGIN
                                                                             SIGNAL (DIRS SYNTAX, 1, VALUE DESC); RETURN .WORST ERROR;
                                                                  END;

CLISGET VALUE ($DESCRIPTOR ('WIDTH.FILENAME'), VALUE_DESC);

STATUS = LIBSCVT_DTB (.VALUE_DESC[DSC$W_LENGTH],

VALUE_DESC[DSC$A_POINTER],

FILENAME_WIDTH);

IF NOT .STATUS OR .FILENAME_WIDTH LSS 0
       544
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551
                                                                            SIGNAL (DIRS SYNTAX, 1, VALUE DESC);
RETURN .WORST_ERROR;
                                                                 END;

IF FILENAME WIDTH EQL O THEN FILENAME WIDTH = 19; !****

CLISGET VALUE (SDESCRIPTOR ('WIDTH.OWNER'), VALUE_DESC);

STATUS = LIBSCYT_DTB (.VALUE_DESC[DSCSW_LENGTH],

VALUE_DESC[DSCSA_POINTER],

OWNER_DIDTH);
                                                                   IF NOT .STATUS OR .OWNER_WIBTH LSS O
                                                                   THEN
      560
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565
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568
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574
577
                                                                            BEGIN
                                                                            SIGNAL (DIRS SYNTAX, 1, VALUE_DESC);
RETURN .WORST_ERROR;
                                                                  IF .OWNER WIDTH EQL O THEN OWNER WIDTH = 20; !***

CLISGET VALUE (SDESCRIPTOR ('WIDTH.SIZE'), VALUE_DESC);

STATUS = LIBSCVT_DTB (.VALUE_DESC[DSCSW_LENGTH],
.VALUE_DESC[DSCSA_POINTER],
.SIZE_WIDTH);

IF NOT .STATUS OR .SIZE_WIDTH LSS 0 !***
                                                                   THEN
                                                                            BEGIN
                                                                            SIGNAL (DIRS SYNTAX, 1, VALUE_DESC);
RETURN .WORST_ERROR;
                                                                   IF .SIZE WIDTH EQL O THEN SIZE WIDTH = 6;
                                                                  END:
```

Open the specified output file/device.

DIRSFILE ERROR (DIRS_OPENOUT, OUTPUT_FAB); RETURN .BORST_ERROR;

DIRSFILE_ERROR (DIRS_OPENOUT, OUTPUT_FAB);

STATUS = \$CREATE (FAB = OUTPUT_FAB);

STATUS = \$CONNECT (RAB = OUTPUT_RAB);
IF NOT .STATUS

IF NOT .STATUS

THEN

THEN

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                        0990
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1011
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1016
1017
1018
1019
                                               RETURN .WORST_ERROR:
                                               END:
                                        ! Determine the width of the output device.
                                       IF .(OUTPUT_FAB[FAB$L_DEV]) < $BITPOSITION (DEV$V_TRM), 1>
THEN
                                               BEGIN
                                              CHSFILL (0, 7+4, GETDVI ARGS);
GETDVI ARGS[0] = DVIS DEVCLASS*16 OR 4;
GETDVI ARGS[1] = INDEV CLASS;
GETDVI ARGS[3] = DVIS DEVBUFSIZ*16 OR 4;
GETDVI ARGS[4] = INDEV_BUFSIZ;
                                              STATUS = $GETDVI (DEVNAM = $DESCRIPTOR ('SYS$OUTPUT'),
                                                                                ITMLST = GETDVI_ARGS);
                                               IF NOT .STATUS
                                               THEN
                                                      BEGIN
                                                      SIGNAL (.STATUS);
RETURN .WORST_ERROR;
                                                      END:
614
                                             .DISPLAY WIDTH EQL O
                                              BEGIN
                                              IF .INDEV_CLASS NEQ DCS_TERM THEN INDEV_BUFSIZ = 132;
                                              DISPLAY_WIDTH = . INDEV_BUFSIZ;
620
621
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623
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633
                        1020
1021
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1045
                                          If the number of columns is defaulted and an information qualifier is
                                           specified, set the column count to 1.
                                      IF (.QUAL FLAGS[DIR v QUAL DATE] OR .QUAL FLAGS[DIR v QUAL OWNE]
    OR .QUAL FLAGS[DIR v QUAL PROT] OR .QUAL FLAGS[DIR v QUAL SIZE]
    OR .QUAL FLAGS[DIR v QUAL FID] OR NOT .QUAL FLAGS[DIR v QUAL HEAD])
AND .QUAL FLAGS[DIR v COLUDEF]
THEN COLUMN_COUNT = 1;
                                       ! Check to see if XABs are needed to gather information.
                                             .QUAL_FLAGS[DIR_V_NEED_FHC]
                                       THEN
                                               BEGIN
                                              IF .FIRST XAB EQL O
THEN FIRST XAB = XAB PTR = INFO XABFHC
ELSE (XAB_PTR(XAB$L_NXT) = INFO XABFHC; XAB_PTR = INFO XABFHC);
638
639
640
                                              GUAL_FLAGS[DIR_V_NEED_DAT]
                                       THEN
                                              IF .FIRST XAB EQL O
THEN FIRST XAB = XAB PTR = INFO XABDAT
ELSE (XAB_PTR(XAB$L_NXT) = INFO XABDAT; XAB_PTR = INFO XABDAT);
644
645
646
                                              .QUAL_FLAGS[DIR_V_NEED_PRO]
```

```
BEGIN

IF .FIRST_XAB EQL 0

THEN FIRST_XAB = XAB PTR = INFO_XABPRO
ELSE (XAB_PTR[XAB$L_NXT] = INFO_XABPRO; XAB_PTR = INFO_XABPRO);
                       IF .C
                                            .QUAL_FLAGS[DIR_V_NEED_SUM]
                                             BEGIN
                                            IF .FIRST_XAB EQL 0
THEN FIRST_XAB = XAB PTR = INFO_XABSUM
ELSE (XAB_PTR[XAB$L_NXT] = INFO_XABSUM; XAB_PTR = INFO_XABSUM);
660
661
                                     IF .C
                                           .QUAL_FLAGSEDIR_V_NEED_JNL]
662
663
664
                                             BEGIN
                                            IF .FIRST XAB EQL O
THEN FIRST XAB = XAB PTR = INFO XABJNL
ELSE (XAB PTR(XAB$L RXT) = INFO XABJNL; XAB PTR = INFO XABJNL);
INFO XABJNL(XAB$L AIA) = DISPLAY BLOCK(DIR T AI NAME);
INFO XABJNL(XAB$B AIS) = XAB$C MĀXJNLNAM;
INFO XABJNL(XAB$L BIA) = DISPLĀY BLOCK(DIR T BI NAME);
INFO XABJNL(XAB$L BIA) = XAB$C MĀXJNLNAM;
INFO XABJNL(XAB$L ATA) = DISPLĀY BLOCK(DIR T AT NAME);
INFO XABJNL(XAB$L ATA) = XAB$C MĀXJNLNAM;
FND:
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679
                                         At this point all of the qualifiers have been parsed. Now determine the
                                         column width and the maximum number of columns that can be printed given
                                         specified (or default) display width. This value is minimized with the
                                         value given on the /COLUMN qualifier.
680
681
682
683
                                      COLUMN_WIDTH = .COLUMN_WIDTH + .FILENAME_WIDTH + 1;
                                          .QUAL_FLAGS[DIR_V_QUAL_SIZE] THEN COLUMN_WIDTH = .COLUMN_WIDTH + .OWNER_WIDTH + 2;
                                     THEN
                                            BEGIN
                                            IF .QUAL FLAGS[DIR V SIZE ALL]
THEN COLOMN WIDTH = .COLUMN WIDTH + .SIZE WIDTH * 2 + 2
ELSE COLUMN WIDTH = .COLUMN WIDTH + .SIZE WIDTH + 2;
686
688
                                             END:
                                          (.QUAL FLAGS[DIR V DATE CRE] OR .QUAL FLAGS[DIR V DATE MOD]
OR .QUAL FLAGS[DIR V DATE EXP] OR .QUAL FLAGS[DIR V DATE BAK]
OR .QUAL FLAGS[DIR V QUAL OWNE] OR .QUAL FLAGS[DIR V QUAL PROT]
OR .QUAL FLAGS[DIR V QUAL SIZE] OR .QUAL FLAGS[DIR V QUAL FID])
689
690
691
692
                                     THEN
694
695
                                             BEGIN
                                             COLUMN_WIDTH = .COLUMN_WIDTH + 4;
696
697
                                             COLUMN_COUNT = MINU (.COLUMN_COUNT, (.DISPLAY_WIDTH + 4) / .COLUMN_WIDTH);
                       1096
1097
1098
1099
1100
698
699
700
701
702
703
704
705
                                     ELSE COLUMN COUNT = MINU (.COLUMN COUNT, .DISPLAY WIDTH / .COLUMN WIDTH);
IF .COLUMN COUNT LEQ O OR .QUAL FEAGSEDIR V QUAL ACL THEN COLUMN COUNT = 1;
                                      ! LIBSQUAL_FILE_PARSE is going to parse the common qualifiers. It sets up
                                      ! a data base which describes the results for LIBSQUAL_FILE_MATCH to use.
                        1101
                                     STATUS = LIBSQUAL_FILE_PARSE (TREF (LIBSM_CQF_BACKUP OR
                                                                                                     LIBSM_CQF_BEFORE OR
```

```
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.832:1
                                                                                                                                                                                                                                        Page
                                                                                                                LIBSM_COF_CREATED OR
LIBSM_COF_EXCLUDE OR
LIBSM_COF_EXPIRED OR
LIBSM_COF_MODIFIED OR
LIBSM_COF_SINCE OR
LIBSM_COF_BYOWNER
), CMN_QUAL_CTX);
     108
109
110
                                             IF NOT .STATUS
                              1112
1113
1114
1115
1116
1117
                                             THEN
                                                    BEGIN
SIGNAL (.STATUS);
RETURN .WORST_ERROR;
                                             CLISGET_VALUE (SDESCRIPTOR ('INPUT'), FILE_DESC);
INPUT_FAB(FAB$L_FNA) = .FILE_DESC(DSC$A_POINTER);
INPUT_FAB(FAB$B_FNS) = .FILE_DESC(DSC$W_LENGTH);
                              If /FULL or /ACL, then image activate SECURESHR, which contains the routine SYSSFORMAT_ACL.
                                            IF .QUAL FLAGS[DIR_V_QUAL_FULL]
OR .QUAL_FLAGS[DIR_V_QUAL_ACL]
THEN BEGIN
                                                    STATUS = LIBSFIND_IMAGE_SYMBOL ($DESURIPTOR ('SECURESHR'))
                                                                                                        SDESCRIPTOR('SYSSFORMAT_ACL'), FORMAT_ACL_ADDR);
                                                     IF NOT .STATUS
                                                    THEN BEGIN
                                                           SIGNAL (.STATUS);
RETURN .WORST_ERROR;
                                                            END:
                                                    END:
                                             ! Process each file specification specified in the command line.
                                                    BEGIN
                                                The following is a KLUDGE to get the XAB information across the network. If the NOP field of the NAM block has the SRCHXABS flag set, then any XABs (supported by the DAP protocol) connected to the FAB are filled in.
                                                          .QUAL FLAGS[DIR V NEED FHC] OR .QUAL FLAGS[DIR V NEED DAT]
.QUAL FLAGS[DIR V NEED PRO] OR .QUAL FLAGS[DIR V NEED SUM]
.QUAL FLAGS[DIR V NEED JNL]
                                                    OR .C
                                                            BEGIN
                                                            INPUT NAM[NAMSV SRCHXABS] = 1;
INPUT FAB[FAB$L XAB] = .FIRST XAB;
                                                    LIBSFILE_SCAN (INPUT_FAB,
DIRSGET_INFO,
DIRSINPUT_ERROR,
                                                                                                                                          file found action routine
                                                                                                                                          Input error action routine
                                                                                                                                       ! Context for stickyness
                                                                                 SCAN_CONTEXT);
                                                     END
```

D1F

```
DIRECTORY
                                                                                                                             VAX-11 Bliss-32 V4.0-742
[DIR.SRC]DIRECTORY.B32;1
                                                                                                                                                                                Page 16 (4)
    UNTIL NOT DIRSGET_FILE(INPUT_FAB);
                       1162
1163
1164
                                 IF .LINE DESC[DSCSW_LENGTH] GTR O THEN DIRSOUTPUT (O, LINE_DESC);
IF .TOTAL_FILES NEG O THEN DIRSTOTAL ();
IF .GRAND_DIRS GTR 1
OR .QUAL_FLAGS[DIR_v_QUAL_GRAN]
THEN DIRSGRAND_TOTAL ();
! Display grand to
                       1165
1166
1167
1168
1169
1170
1171
1173
1175
1176
1177
1178
1179
1180
1181
1182
                                                                                                      ! Display grand totals
                                    If no files have been selected, and no other errors have occurred, return a status of RMSS_FNF instead of success.
                                  IF .WORST_ERROR AND NOT .QUAL_FLAGS[DIR_V_FILE_FOUND] THEN
                                       BEGIN
SIGNAL (DIRS NOFILES);
WORST_ERROR = (RMSS_FNF AND NOT STSSM_SEVERITY) OR STSSK_WARNING
                                                                                                            OR STS$M_INHIB_MSG:
                                        END:
                                  STATUS = SCLOSE (FAB = OUTPUT_FAB);
                                  IF NOT .STATUS THEN DIRSFILE_ERROR (DIRS_CLOSEOUT, OUTPUT_FAB);
                                  RETURN .WORST_ERROR:
                                  END:
                                                                                                      ! End of routine DIR_MAIN
                                                                                                         .TITLE
                                                                                                                    DIRECTORY
                                                                                                         . IDENT
                                                                                                                    \V04-000\
                                                                                                         .PSECT GIRSCOMMON, NOEXE, OVR, O
                                                                                     00000 QUAL_FLAGS:
                                                                                     00008 COLUMN_COUNT:
                                                                                     OOOOC COLUMN_INDEX:
                                                                                     00010 COLUMN_WIDTH:
                                                                                     00014 WORST_ERROR:
                                                                                     00018 CMN_QUAL_CTX:
                                                                                     0001C DISPLAY_BLOCK:
                                                                                     00020 CHANNEL: BLKB
00024 DEVICE NAME:
                                                                                                                     16
                                                                                                          BLKB
                                                                                     00034 LINE_DESC:
                                                                                     0003C LINE BUFFER:
                                                                                                                    1024
                                                                                                          BLKB
                                                                                     0043C TOTAL_USED:
                                                                                     00440 TOTAL ALLOC:
```

.BLKB

DII

DI

0				: 58 : 31	VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.B32;1
•		TOTAL_FILE	S:	4	
0	0448	GRAND_USED	LKB	•	
0	0440	GRAND_ALLO	ILKB	4	
0	0450	GRAND_FILE	S:	4	
			LKB	4	
		PREV_DIR:	ILKB	4	
0	0557	.8	LKB	255	
		PREV_DIR_L	EN:	4	
0	055C	PREV_FILE:	LKB	255	
	065B 065C	PREV_FILE_	LKB LEN:	1	
	0660	0	LKB	4	
			LKB	4	
			ILKB	4	
		INFO_XABJN	ILKB	4	
_	066D	.0	YTE	34	
0000 0	066E 0670	. W	IORD	60000	
	0674		ONG	ŏ	
0000 0	0676		IORD	0	
00 0	0678	.6	YTE		
0000000	0679 067A 067C 0680 0681 0682 0684 0688		ORD	000000000000	
0000000	067C		ONG YTE YTE ORD	ŏ	
00 0 000 0 0000 0	0680	.8	YTE	0	
00 0	0681	.8	YTE	0	
0000 0	0684		ONG	X	
00 0	0688	. A	ONG	ŏ	
00 0	0689	.8	YTE	ŏ	
**************************************		. W	ONG	0	
00000000	068C 0690	٠,٢	ONG	9,	
16 0	06A8	INEO VARCU	LKB	24	
	UQAG	INFO_XABSU	YTE	22	
OC 0	06A9	.8	YTE	22 12	
0000000 00000000 00000000	06A9 06AA		IORD	0	
00000000	DAAC	. L	ONG	0	
00 0	06B0 06B1	.8	ALE	00000	
0000	06B2	.0	YTE	N N	
0000 0	06B4	INFO_XABPR	ORD	U	
	06B5	.0	YTE	19 86	

		1	1 15 5-Sep-1984 23:3 4-Sep-1984 12:1	8:58 9:31	VAX-11 Bliss-32 V4.0-742 CDIR.SRCJDIRECTORY.B32;1	Page 18
0000	0000 0000 FFFF	00686 00686 00686 00686	.WORD LONG .WORD .BYTE	0 1		
0000	0000	006BF 006C0 006C4	BYTE	0, 0		•
	0000	006C5 006C6 006C8	.BYTE .WORD .LONG	Q		•
0000	0000	006CC 00400 00400	LONG WORD WORD	0000000		•
0000	0000	006D4 006D8 006DC	LONG LONG BLKB	0 0 48		•
	12	0070C	INFO_XABDAT: .BYTE .BYTE	18		
0000	0000 0000 2C	0070E 00710 00714	. WORD LONG . WORD . WORD	0000		
0000	0000	00716	. WORD . LONG . LONG	0[5] 0[5]		•
0000	0000 0000 0000#	00720 00728 00720 00730	LONG LONG LONG	0[5]		•
	10	00738	INFO_XABFHC: .BYTE	29		•
0000	0000 0000 0000 2C	00739 0073A 0073C 00740	. WORD . LONG . LONG	0[9]		•
	02	00764	INFO_NAM: .BYTE	2 96		•
0000	000	00765 00766 00767 00768	.BYTE	0		
0000	00	00740	.BYTE .BYTE .BYTE	ŏ		
0000	0000	0076D 0076E 0076F 00770 00778	LONG LONG	ŏ		
0000	0000# 0000# 0000#	00778 00788 0078E	WORD WORD	0[3] 0[3] 0[3]		
0000	0000	00794	LONG LONG BYTE	0		
	00 00 00 00	00798 00790 00790 0079E 0079F	.BYTE	ŏ		
	00	007A0 007A1	BYTE BYTE BYTE	8		

	15-Sep-1984 23:38:58 14-Sep-1984 12:19:31	VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.B32;1	Page 19
00000000 00000000 00000000 00000000 0000	007A2 .BYTE 0[2] 007A4 .LONG 0 007AB .LONG 0 007AC .LONG 0 007BO .LONG 0 007B4 .LONG 0 007B4 .LONG 0 007BB .LONG 0 007BC .LONG 0 007C4 INFO_FAB:		
50 0000 0100000 0000000 0000000 0000	007C5 .BYTE 80 007C6 .WORD 0	77216	
00000000 00 00 00 00	0070B .BYTE 67 007DC .LONG 0 007E0 .BYTE 0 007E1 .BYTE 0 007E2 .BYTE 0 007E3 .BYTE 2		
0000000 0000000 0000000 0000000 0000000	007E4 .LONG 0 007E8 .LONG 0 007EC .ADDRESS INFO 007F0 .LONG 0 007F4 .LONG 0 007F8 .BYTE 0	O_NAM	
00000000	007F9 .BYTE 0 007FA .WORD 0 007FC .LONG 0 00800 .WORD 0 00802 .BYTE 0 00803 .BYTE 0		
00000000 00000000 000 000	00804 .LONG 0 00808 .LONG 0 0080C .WORD 0 0080E .BYTE 0 0080F .BYTE 0		0 0 0 0 0 0 0
00000000	00810 LONG 0 00814 DISPLAY_WIDTH: .BLKB 4		•
	00818 FILENAME_WIDTH:		
	0081C OWNER_WIDTH:		
	00820 SIZE_WIDTH:		
	00824 MIN_BLOCK: BLKB 4		
	00828 MAX_BLOCK: BLKB 0082C ACL_LENGTH:		
	00830 OUTPUT_RAB:		
	COSC COLL OI SING!		

DIR VO4	EC10	RY											K 15 15-Sep-1984 23:38:58 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:19:31 [DIR.SRC]DIRECTORY.B32:1	Page 2
													.BLKB 68	
													.PSECT SPLITS, NOWRT, NOEXE, 2	
00	00	53	49	40	2E	59	00	00 4F	00	2A 43	3B 45	2A 2E 2A 52 49 44	00000 P.AAA: .ASCII *.*;*\<0><0><0> 00008 P.AAB: .ASCII \DIRECTORY.LIS\<0><0><0>	•
								••	45	52	46	\$2 49 44 46 45 42	00017 00018 P.AAD: .ASCII \BEFORE\ 0001E .BLKB 2 00020 P.AAC: .LONG 6 00024 .ADDRESS P.AAD 00028 P.AAF: .ASCII \SINCE\	•
													0001E .BLKB 2 00020 P.AAC: .LONG 6	•
										45	43	00000006 00000000 4E 49 53	00024 .ADDRESS P.AAD 00028 P.AAF: .ASCII \SINCE\	
													0002D .BLKB 3 00030 P.AAE: .LONG 5	
							52	45	4E	57	45	00000005 00000000 5F 59 42	00034 .ADDRESS P.AAF	
									•	•	••	0000000	00040 P.AAG: LONG 8 00044 ADDRESS P.AAH	
												40 43 41	00048 P.AAJ: ASCII \ACL\ 00048 BLKB 1	•
												00000000	00040 P.AAG: LONG 8 00044 .ADDRESS P.AAH 00048 P.AAJ: ASCII \ACL\ 0004B .BLKB 1 0004C P.AAI: LONG 3 00050 .ADDRESS P.AAJ	•
										46	45	49 52 42	00054 P.AAL: ASCII \BRIEF\ 00059 BLKB 3	•
												00000005	0005C P.AAK: LONG 5 00060 ADDRESS P.AAL	•
								53	4E	40	55	4C 4F 43	00064 P.AAN: ASCII \COLUMNS\ 0006B .BLKB 1	•
												00000007	0006C P.AAM: LONG 7 00070 ADDRESS P.AAN	•
								53	48	40	55	4C 4F 43	00074 P.AAP: .ASCII \COLUMNS\	:
												00000007	0007B .BLKB 1 0007C P.AAO: .LONG 7 00080 .ADDRESS P.AAP	•
											45	54 41 44	00084 P.AAR: ASCII \DATE\ 00088 P.AAQ: LONG 4	
							40	40	41	2E	45	00000000	0008C .ADDRESS P.AAR	
							46	46	41	25	43	00000008	00098 P.AAS: .LONG 8	
			44	45	54	41	45	52	43	2E	45	54 41 44	000A0 P.AAV: ASCII \DATE.CREATED\	
			44	45	52	49	50	5.0	4.6	26	45	00000000 00000000 54 41 44	000AC P.AAU: .LONG 12 000BO .ADDRESS P.AAV 000B4 P.AAX: .ASCII \DATE.EXPIRED\	
			44	7)	16	77	,,	58	45	SE	43	00000000	UUUCU P.AAW: .LONG 12	
		44	45	49	46	49	44	4F	40	SE	45	54 41 44	000C8 P.AAZ: .ASCII \DATE.MODIFIED\	
												00000000	000D5 .BLKB 3 000D8 P.AAY: .LONG 13 000DC .ADDRESS P.AAZ 000E0 P.ABB: .ASCII \DATE.BACKUP\	•
				50	55	48	43	41	42	SE	45	54 41 44	000DC .ADDRESS P.AAZ 000E0 P.ABB: .ASCII \DATE.BACKUP\	•
												80000000 00000000	000EB .BLKB 1 000EC P.ABA: .LONG 11	•
								44	49	5F	45	46 49 46	000F0 .ADDRESS P.ABB 000F4 P.ABD: .ASCII \FILE_ID\	0
												00000007	000FB .BLKB 1 000FC P.ABC: .LONG 7	

VO

D1R V04	EC10	RY											L 15 5-Sep-1984 23:38:58	Page 21 (4)
				10		81	10	81	**		40	400000000° 0010 40 55 46 0010 00000004 0010 000000000 0010	.ADDRESS P.ABF	•
				40	41	54	45	>4	16	44	4E	41 52 47 0011	.BLKB 1	•
								47	4E	49	44	00000000 0011 00000000 0012 41 45 48 0012	P.ABG: LONG 11 .ADDRESS P.ABH P.ABJ: .ASCII \HEADING\	
								52	45	54	4E	00000007 0012 00000000 0013 49 52 50 0013	P.ABI: LONG 7 ADDRESS P.ABJ P.ABL: ASCII \PRINTER\	
								,,	40	34	46	0013	P.ABK: LONG 7	•
									54	55	50	000000000 0014 000000000 0014 54 55 4F 0014 0014	P.ABN: .ASCII \OUTPUT\	
												00000000 0014	P.ABM: LONG 6	
									54	55	50	54 55 4F 0015 0015	P.ABP: .ASCII \OUTPUT\	•
			00	3A	54	55	50	54	55	4F 52	24 00 45	00000000 0016 00000000 0016 53 59 53 0016 3A 4C 4E 0017 4E 57 4F 0017	P.ABO: LONG 6 .ADDRESS P.ABP P.ABQ: ASCII \SYS\$OUTPUT:\<0> P.ABR: ASCII \NL:\<0>	
45	49	46	49	54	4E	45	44	49	2E	52	45	00000005 0017 000000000 0018 4E 57 4F 0018	P.ABV: .ASCII \OWNER.IDENTIFIER\	
					15		40	£ /		45	E 1	00000010 0019 00000000 0019 4F 52 50 0019	P.ABU: LONG 16 .ADDRESS P.ABV	
					46	41	49	34	43	43	24	001A	.BLKB 2	•
							59	54	49	52	55	00000000 001A 000000000 001A 43 45 53 001B 00000008 001B	P.ABZ: ASCII \SECURITY\	
									54	43	45	000000000 001B 000000000 001B 4C 45 53 001C	P.ACB: .ASCII \SELECT\	
												00000006 0010	P.ACA: LONG 6	
48	49	40	2E	45	5A	49	53 5A	2E 49	54 53	43 5F	45	4C 45 53 001D	.ADDRESS P.ACB	0
							3						P.ACC: LONG 24 ADDRESS P.ACD	
48	49	40	SE	45	5A	49	5 A	2E	53	43 5F	45	4C 45 53 001F	P.ACF: .ASCII \SELECT.SIZE.MINIMUM_SIZE\	•
6.0		10	35		E A	40	6.7	30	R.4	4.9	10	00000018 0020	.ADDRESS P.ACF	•
58	41	40	SE	45	5A	45	5A	2E 49	53	5F	40	55 4D 49 0021	P.ACH: .ASCII \SELECT.SIZE.MAXIMUM_SIZE\	
												00000000 0022	P.ACG: .LONG 24 .ADDRESS P.ACH	

D I RI	ECTO -000	RY										M 15 15-Sep-1984 23:38:58 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:19:31 [DIR.SRC]DIRECTORY.832;1	Page 22
58	41	40	SE	45	5A	49	53 5A	2E	54 53	43 5F	45 40	4C 45 53 00230 P.ACJ: .ASCII \SELECT.SIZE.MAXIMUM_SIZE\	•
												00000018 00248 P.ACI: LONG 24 00000000 0024C ADDRESS P.ACJ	•
											45	5A 49 53 00250 P.ACL: .ASCII \SIZE\ 00000004 00254 P.ACK: .LONG 4	
							40	40	41	28	45	00000000 00258 .ADDRESS P.ACL 5A_49_53 0025C P.ACN: .ASCII \SIZE.ALL\	
18	4.5	40	E 4				10	4.0		20	4.5	00000008 00264 P.ACM: .LONG 8 00000000 00268 .ADDRESS P.ACN	
•E	41	49	54	41	43	41	40	46	41	2t	45	5A 49 53 0026C P.ACP: .ASCII \SIZE.ALLOCATION\ 00278	•
						44	45	53	55	2E	45	00000000 00280 .ADDRESS P.ACP	
							4,	,,	,,	25	43	00280 BLKB 3	
										40	41	00000009 00290 P.ACQ: LONG 9 00000000 00294 .ADDRESS P.ACR 54 4F 54 00298 P.ACT: .ASCII \TOTAL\	
										76	71	0029D BLKB 3	•
							47	4E	49	40	49	00000000 002A4 .ADDRESS P.ACT .ASCII \TRAILING\	
												00000008 002B0 P.ACU: LONG 8 00000000 002B4 .ADDRESS P.ACV 52 45 56 002B8 P.ACX: .ASCII \VERSIONS\	
							53	4E	4F	49	53	52 45 56 002B8 P.ACX: .ASCII \VERSIONS\ 00000008 002C0 P.ACH: .LONG 8	
							53	4E	45	49	53	00000000 002C4 .ADDRESS P.ACX 52 45 56 002C8 P.ACZ: .ASCII \VERSIONS\	
												00000008 002D0 P.ACY: .LONG 8 00000000 002D4 .ADDRESS P.ACZ	
										48	54	44 49 57 002DB P.ADB: .ASCII \WIDTH\ 002DD .BLKB 3 00000005 002ED P.ADA: .LONG 5	ě
		60	/ 1	10	50	6.7	10		20		81	OOOOOOO OOZEG .ADDRESS P.ADB	•
		59	41	40	50	53	49	**	25	40	54	44 49 57 002EB P.ADD: .ASCII \WIDTH.DISPLAY\ 002F5 .BLKB 3	•
	45	4D	41	46	45	40	49	46	2E	4.0	54	00000000 002F8 P.ADC: LONG 13 00000000 002FC ADDRESS P.ADD 44 49 57 00300 P.ADF: ASCII \WIDTH.FILENAME\	
	7,	40	41	46	47	46	47	40	26	40	74	0030E BLKB 2	•
				52	45	46	57	4F	2E	4.8	54	00000000 00310 P.ADE: .LONG 14 00000000 00314 .ADDRESS P.ADF 44 49 57 00318 P.ADH: .ASCII \WIDTH.OWNER\	•
				16	43	76	<i>31</i>	41	25	40	74	00323 BLKB 1	•
					45	5A	49	53	2E	48	54	00000008 00324 P.ADG: .LONG 11 00000000 00328 .ADDRESS P.ADH 44 49 57 0032C P.ADJ: .ASCII \WIDTH.SIZE\	•
							7.0					00336 BLKB 2	•
					54	55	50	54	55	46	24	00000000 00338 P.ADI: .LONG 10 00000000 0033C .ADDRESS P.ADJ 53 59 53 00340 P.ADL: .ASCII \SYSSOUTPUT\	•
												0034A BLKB 2	•
										54	55	00000000 0034C P.ADK: .LONG 10 00000000 00350 .ADDRESS P.ADL 50 4E 49 00354 P.ADN: .ASCII \INPUT\	•

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N 15
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.832;1
                                                                                                                                                                                                                                               Page 23 (4)
                                                                                                                   0035C P.ADM:
00360
00364 P.ADP:
0036D
00370 P.ADO:
00374
00378 P.ADR:
                                                                                                00000005
                                                                                                                                              .LONG 5 .ADDRESS P.ADN
                                                             53 45
                                                                           52
                                                                                    55
                                                                                                                                               .ASCII \SECURESHR\
                                                                                                                                               BLKB
                                                                                                00000009
                                                                                                                                              . LONG
                                                                                                                                               ADDRESS P.ADP
                                                                                                                                                             \SYSSFORMAT_ACL\
                                                                                                                                               .ASCII
                                                                                                                                               .BLKB
                                                                                                0000000E
                                                                                                                               P. ADQ:
                                                                                                                                               . LONG
                                                                                                                                               ADDRESS P.ADR
                                                                                                                                              .PSECT SOWNS, NOEXE, 2
                                                                                                                    00000 FORMAT_ACL_ADDR:
                                                                                                                                                BEKB
                                                                                                                   00004 OUTPUT_FAB:
                                                                                                                    00054 OUTPUT_NAM:
                                                                                                                                                BLKB
                                                                                                                    00084 OUT_EXP_NAM:
                                                                                                                                                             255
                                                                                                                                               .BLKB
                                                                                                                    001B3
                                                                                                                                               .BLKB
                                                                                                                    001B4 OUT_RES_NAM:
                                                                                                                                                             255
                                                                                                                                               .BLKB
                                                                                                                                                            OUTPUT_RAB
OUTPUT_NAM
CLISGET_VACUE, CLISPRESENT
LIBSFILE_SCAN, LIBSFIND_IMAGE_SYMBOL
LIBSQUAL_FILE_PARSE
CLIS_DEFAULTED, CLIS_NEGATED
DIRSGET_INFO, DIRSTOTAL
DIRSGRAND_TOTAL
LIBSCYT_DTB, LIBSGET_VM
DIRS_NOFILES, LIBSSIGNAL
SYSSFLUSH, SYSSWAIT
SYSSCREATE, SYSSCONNECT
SYSSGETDVI, SYSSCLOSE
                                                                                                                            SRMS_PTR=
SRMS_PTR=
SRMS_PTR=
                                                                                                                                               .EXTRN
                                                                                                                                               .EXTRN
                                                                                                                                               EXTRN
                                                                                                                                               EXTRN
                                                                                                                                               EXTRN
                                                                                                                                               EXTRN
                                                                                                                                               EXTRN
                                                                                                                                               .EXTRN
                                                                                                                                               .EXTRN
                                                                                                                                              .EXTRN
                                                                                                                                              .PSECT
                                                                                                                                                             SCODES, NOWRT, 2
                                                                                                          OFFC 00000 DIRSMAIN:
                                                                                                                                                             Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
$RMS_PTR, R11
P.AAX, R10
CLISPRESENT, R9
                                                                                                                                                                                                                                                      0591
                                                                                                                                               . WORD
                                                                                00000000
000000000
000000000
                                                                                                                   00002
00007
00000
00013
0001A
0001F
00022
00028
00028
00030
00032
                                                                           5B
5A
59
58
5E
                                                                                                                                              MOVAB
                                                                                                      CF
OO
EF
CE
AE
68
01
                                                                                                                                              MOVAB
                                                                                                             9E
9E
9E
04
00
04
                                                                                                                                              HOVAB
                                                                                                                                                             QUAL FLAGS, R8
-748(SP) SP
SCAN_CONTEXT
QUAL FLAGS
#1, DORST_ERROR
CHANNEL
                                                                                                                                              BAVOM
                                                                                        FD14
                                                                                                                                              MOVAB
                                                                                                                                                                                                                                                     0660
0661
0662
0663
0664
                                                                                            00
                                                                                                                                              CLRL
                                                                                                                                              CLRL
                                                                 14
                                                                                                                                              MOVL
                                                                                                      8A
00
8A
                                                                                            50
                                                                                                                                              CLRL
                     10
                                                00
                                                                           6E
                                                                                                                                              MOVC 5
                                                                                                                                                              #0. (SP), #0, #16, DEVICE_NAME
                                                                                                                                                             COLUMN INDEX
                                                                                                                                              CLRQ
                                                                                                                                                                                                                                                      0665
                                                                                                                                              CLRL
```

DIRECTORY VO4-000									15	16 -Sep- -Sep-	1984 23:38 1984 12:19		VAX-11 Bliss-32 V4.0-742 [DIR.SRC]DIRECTORY.832;1	Page 2	24
						0660 0656 0558 0440 0430 0448 10	CC CC CC A A 5 CO	704 04 704 704 704 704 704 704	00038 0003C 00040 00044 00048 0004C 00050 00054 00057		CLRQ CLRL CLRQ CLRQ CLRQ CLRQ CLRQ	VERS PREV PREV TOTA TOTA GRAN COLU INDE	SION COUNT / FICE LEN / DIR CEN NC ALCOC NL USED ND FILES ND USED JMR WIDTH EV CLASS PTR ST XAB (SP) #0 #8 WALHE DESC	066 066 066 067 067	58 59 70
	08		00		6E	0668	(8 00	04	0005C		CLRL CLRL MOVC5	FIRS	T XAB (SP), #0, #8, VALUE_DESC	067	
		34 34	AE A8	2f 2C 2C 38	AE AE AE A8	2C	AE 02	90 28 28 9F 30	00065		MOVB_	#2	VALUE_DESC+3 VALUE_DESC, FILE_DESC VALUE_DESC, LINE_DESC BUFFER, LINE_DESC+4 CAY_BLOCK (47SP)	067 067 067 067	
				34 000000006	AE 00	0168	AB AE O2 O2	30 9F FB	00075		PUSHAB MOVZWL PUSHAB CALLS	#459 4(SP	LIBSGET_VM	068	11
				00000000G 00000000G	00 57 3D 00 00 00	0830 0830	08888FE2007801701	FB DO E8 9 FB DO FB	000A0 000A4 000AB	18:	MOVC3 MOVAB PUSHAB MOVZWL PUSHAB CALLS MOVL BLBS PUSHAB CALLS PUSHAB CALLS PUSHAB CALLS PUSHAB		LIBSGET_VM STATUS TUS, 48 PUT RAB SYSSFLUSH PUT RAB SYSSWAIT TUS LIBSSIGNAL	068 068	32
	50 50	14	57 A8		07 03 03		57 16 00 00 09 8F	93 13 EF ED 18	000B4 000B7 000B9 000BE		BEQL EXTZV CMPZV	35	#3, STATUS, RO #3, NORST FRROR, RO	0	
0050	8F	14	A8 00		57 6E	10000000	087F	31	000C4 000C6 000CF 000D2	28: 35: 45:	BGEQ BISL3 BRW MOVC5	903	3435456, STATUS, WORST_ERROR (SP), #0, #80, \$RMS_PTR	068 069	36
0040	ne.		20	00 C6 CF D8 E0 E5	AD AD AD AD AD	5003 FF50	00 8F 02 02 06 00 00 00 00 8F 01 01	90 90 9E 9E 9C	00009 0000B 000E1 000E5 000E9 000EF 000F7 000FE		MOVW MOVB MOVAB MOVAB MOVB MOVC5	27	83, \$RMS_PTR \$RMS_PTR=22 \$RMS_PTR+31 UT_NAM, \$RMS_PTR+40 VA, \$RMS_PTR=48 \$RMS_PTR+53 (SP), #0, #96, \$RMS_PTR		00
0060	8F		00	FF50 FF52 FF54 FF5A FF5C	GE CD CD CD CD CD	FF50 6002 3C 013C	ČE	80 8E 9E 9E 9E	000FF 00101 00108 0010D 00113 00118 00126 00127 0012C 00131 00135		MOVU MNEGB MOVAB MNEGB MOVAB MOVCS	#245	(SP), #0, #96, SRMS_PTR 578, SRMS_PTR \$RMS_PTR=2 RES_NAM, \$RMS_PTR+4 \$RMS_PTR+10 EXP_NAM, \$RMS_PTR+12 (SP), #0, #80, \$RMS_PTR	069	
				04 16 1E	68 AB AB AB	5003 40 0202	68 8F 01 8F	80 9A 90	00126 00127 0012C 00131 00135		MOVU MOVU MOVU	#204	83, SRMS PTR SRMS PTR+4 SRMS PTR+22 , SRMS PTR+30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

DIRECTORY VO4-000								1	\$ 16 \$-Sep-1 4-Sep-1	984 23:38 984 12:19	:58 :31	VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.B32;1	Page 25 (4)
0044	8F	00	28 30 35	AB AB AB	50 08	AB AA 000 C8 86 600 AB 87 01	36 96 96 96	0013E 00140 00145 00150 00155		MOVAB MOVAB MOVB MOVC5	OUTPL P. AAS	JT_NAM, \$RMS_PTR+40 3, \$RMS_PTR+48 \$RMS_PTR+53 (SP), #0, #68, \$RMS_PTR	0709
			0830 0860	C8	0830 4401	C 8 8 F 6 B	80 9E 20	00150 0015 0015		MVVM	#1740	09, \$RMS_PTR UT_FAB, \$RMS_PTR+60	3 0709
0060	8F	00		6E	50	00	20	0015F		MOVC5	#0,	(SP), #0, #96, \$RMS_PTR	0714
			50 52 54 5A 5C	AB	6002	8F 01	80 8E 9E 9E 9F	00168 00178 00178 00178 00188 00188 00188 00191 00191 00191		MOVW MNEGB MOVAB MNEGB MOVAB PUSHAB CALLS BLBS PUSHAB CALLS BLBC BISW2 PUSHAB CALLS BLBC BISW2 PUSHAB	#2457	RAS PTR	
			54 5A	AB AB	0180	CB 01	9E 8E	00178 00178		MOVAB MNE GB	OUT_F	RES_NAM, \$RMS_PTR+4 BRMS_PTR+10	•
			50	AB	0080	CB	9E	00170		MOVAB	OUT B	XP_NAM, SRMS_PTR+12	0722
				69		01 50		00185		CALLS	#1, 80.	LISPRESENT	
					30	AA 01	FB	0018E		PUSHAB	P. AAE	L I SPRESENT	0723
			03	69 06 A8	0240	01 50 8F	E9	00191	58.	BLBC	RO.	SS OHAL FLAGSAR	0726
			V 3		40	AA 01	9F	00194	68:	PUSHAB	P. AAC	aone i engo s	0726 0730
			03	69 06 A8	0440	01 50 8F	FB E9 A8 9F	001A0		BLBC	RO	LISPRESENT	0773
			03	69	40	AA	9f f B	001A9	78:	PUSHAB	P.AA	GUAL_FLAGS+3	0733 0739
	68	01		00	8.0	01 50 AA	FO	001AC		CALLS INSV PUSHAB	RO.	LISPRESENT 10, W1, QUAL_FLAGS	07/0
	68	01		69	50	01	9f fB	001B4	,	CALLS	#1,	10, #1, QUAL_FLAGS	0740
	00	O1			60	01 50 AA	F 0	001BA		PUSHAB	P. AAP	I ACCESS	0741
	68	01		05 64		010500 5500 60055 60055	FO	001BF 001C2 001C5 001C6 001D0 001D0		INSV	RO.	LISPRESENT 11, W1, QUAL_FLAGS LISPRESENT 12, W1, QUAL_FLAGS LI_STATUS 15 _DESC LISGET_VALUE IN COUNT _DESC+4 _DESC, -(SP) IB\$CVT_DTB ITATUS JS, 9\$	
				52 40		50	E9	0010		BLBC	RO, 1	LI STATUS	
					2C 7C	AA	9F	00100		PUSHAB	P.AAC	DESC	0744
			000000006	00	08	50 8A	FB 9F	001D6		PUSHAB	MZ. (CLISGET_VALUE In_count	0745
				7E	08 34 34	AE	DD 3C	001E0		PUSHL	VALUE	DESC+4 DESC, -(SP)	0746 0745
			0000000G	7E 00 57 03		03 50	FB	001E7		MOVL	#3. L RO. S	TBSCVT_DTB	
				03		0393	£8	001F1	35:	BLBS	STATU 40\$	JS. 9\$	0748
					08	A8 F8	D5	001F7	95:	TSTL	COLUP	IN_COUNT	8
			0.8	88		04	12	001F0		BNEQ	105	COLUMN COUNT	0754
			000000000	AB BF		04 01 05 05 05 05 05 05 05 05 05 05 05	FFDE9FFBFDCB0815920128FB09	001E0 001E7 001E7 001F4 001F4 001F6 0020F 0020F 0020F 0021F	108:	CALLS INSV MOVL BLBC PUSHAB PUSHAB CALLS PUSHAB PUSHL MOVZWL CALLS MOVL BLBS BRW TSTL BLSS BNEQ MOVL CMPL BNEQ BISB2 PUSHAB	CLI_S	COLUMN_COUNT TATUS, #CLIS_DEFAULTED	0755
			03	A8	0088	8F	88	00206	118:	BISBS	#128	QUAL_FLAGS+3	0757
	68	01		69 03 62	0000	01	FB	00214		CALLS INSV BLBC	Mi.	LISPRESENT	. 0/3/
	UU	VI		62		50	E9	00210		BLBC	RO. 1	13, #1, QUAL_FLAGS	• •

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			04 A8	0098	02 88 0021F BISB2 #2. QUAL_FLAGS+4 CA 9F 00223 PUSHAB P.AAS	0760
			69 0E 68 10 A8	f 0 0000004 C	02 88 0021F BISB2 #2. QUAL_FLAGS+4 CA 9F 00223 PUSHAB P.AAS 01 FB 00227 CALLS #1, CLISPRESENT 50 E9 0022A BLBC R0, 12\$ 8F 88 0022D BISB2 #240, QUAL_FLAGS 8F CO 00231 ADDL2 #76, COLUMN_WIDTH	0767 0768
				00AC	46 11 00239 BRB 16\$ CA 9F 0023B 12\$: PUSHAB P.AAU 01 FB 0023F CALLS #1, CLISPRESENT 50 E9 00242 BLBC R0, 13\$	0767 0768 0761 0772
			69 07 68 10 A8	0000	13 CO 00248 ADDL2 #19, COLUMN_WIDTH	0775 0776 0778
			69 07 68	0000	01 FB 00250	0
			10 A8 69	0008	20 88 00256 BISB2 #32, QUAL FLAGS 13 CO 00259 ADDL2 #19, COLUMN_WIDTH CA 9F 0025D 148: PUSHAB P.AAY 01 FB 00261 CALLS #1, CLISPRESENT 50 E9 00264 BLBC RO, 15\$	0781 0782 0784
			69 08 68 10 A8	40	8F 88 00267 BISB2 #64, QUAL FLAGS 13 CO 0026R ADDL2 #19, COLUMN HIDTH	0787 0788 0790
			69 08 68 10 A8	0300	CA 9F 0026F 158: PUSHAB P.ABA 01 FB 00273 CALLS #1, CLISPRESENT 50 E9 00276 BLBC RO, 168 8F 88 00279 BISB2 #128, QUAL FLAGS 13 CO 00270 ADDL2 #19, COLUMN WIDTH	•
				00FC	01 FB 00273	0793 0794 0798
01	A8	01	69 00 04 10 A8		50 50 00286 PLAC PO 178	0799 0800
01	A8	01	69	0108	CA 9F 00295 178: PUSHAB P.ABE 01 FB 00299 CALLS #1, CLI\$PRESENT 50 F0 0029C INSV RO, #1, #1, QUAL_FLAGS+1 50 E9 002A2 BLBC RO, 18\$ 1F 88 002A5 BISB2 #31, QUAL_FLAGS+4 CA 9F 002A9 16\$: PUSHAB P.ABG	0800
			04 A8	0110	01 FB 00299 50 F0 0029C 50 F0 0029C 50 F0 0029C 50 F0 0029C 50 F0 002A2 1F 88 002A5 CA 9F 002A9 16\$: PUSHAB P.ABG 01 FB 002AD 50 F0 002B0 CALLS #1, CLI\$PRESENT 1NSV RO, #2, #1, QUAL_FLAGS+1 PUSHAB P.ABI 01 FB 002BA CALLS #1, CLI\$PRESENT 50 F0 002C3 PUSHAB P.ABK 01 FB 002C7 CALLS #1, CLI\$PRESENT 50 F0 002CA SP 002CA SP 002CA SP 002CA SP 002CB BLBC RO, #6, #1, QUAL_FLAGS+1 BLBC RO, 19\$ BLBC RO,	0805 0807
01	A8	01	69 02 69	0120	01 FB 002AD	0808
01	A8	01	69 03 69	0130	50 F0 002BD INSV RO. #3. #1. QUAL_FLAGS+1 CA 9F 002C3 PUSHAB P.ABK 01 FB 002C7 CALLS #1. CLISPRESENT	0813
01	A8	01	69 06 05 05 AB	014C	50 F0 002CA INSV RO, #6, #1, QUAL_FLAGS+1 50 E9 002D0 BLBC RO, 19\$ 8F 88 002D3 BISB2 #160, OUTPUT_FAB+5 CA 9F 002D8 19\$: PUSHAB P.ABM	0817 0819
01	A8	01	69 04 52 30	0140	CA 9F 00281 168: PUSHAB P.ABC 1 FB 00285	, 0017
				015C	50 DO 002E5 MOVL RO, CLI STATUS 50 E9 002E8 BLBC RO, 20\$ AE 9F 002EB PUSHAB FILE DESC CA 9F 002EE PUSHAB P.ABO 02 FB 002F2 CALLS #2, CLI\$GET_VALUE AE DO 002F9 MOVL FILE_DESC+4, OUTPUT_FAB+44	0822
		00	0000000G 00 2C AB	38	OZ FB 002FZ CALLS #2, CLISGET_VALUE AE DO 002F9 MOVL FILE_DESC+4, OUTPUT_FAB+44	0823

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			34	50 34 AB	AE 3C 002FE MOVZWL FILE DESC, RO 50 90 00302 MOVB RO, DUTPUT_FAB+52 50 D5 00306 TSTL RO 29 12 00308 BNEQ 21\$	0824
		24	01 20 34	AB 0164 AB	06 FO 00308 BNEQ 218	0825 0828 0829 0819 0834
			000000006	8F	52 D1 00318 20\$: CMPL CLI_STATUS, #CLIS_NEGATED OF 12 00322 BNEW 21\$: 0819
			2C 34 05	AB 0170 AB AO 017C	CA 9E 0030F MOVAB P.ABQ, OUTPUT FAB+44 0B 90 00315 MOVB #11, OUTPUT FAB+52 18 11 00319 BRB 21\$ 52 D1 0031B 20\$: CMPL CLI_STATUS, #CLI\$_NEGATED 0F 12 00322 BNEQ 21\$ CA 9E 00324 MOVAG P.ABR, OUTPUT FAB+44 03 90 0032A MOVB #3, OUTPUT FAB+52 8F 8A 0032E BICB2 #160, OUTPUT FAB+5 CA 9F 00333 21\$: PUSHAB P.ABS CALLS #1, CLI\$PRESENT	0837 0838 0840 0843
01	A8	01		69 05 11	CA 9F 00333 218: PUSHAB P.ABS 01 FB 00337 CALLS #1, CLISPRESENT 50 F0 0033A INSV RO. #5, #1, QUAL_FLAGS+1 50 E9 00340 BLBC RO, 22\$	
			04	A8 0194	50 F0 0033A INSV RO. #5, #1, QUAL_FLAGS+1 50 E9 00340 BLBC RO, 22\$ 04 88 00343 BISB2 #4. QUAL_FLAGS+4 CA 9F 00347 PUSHAB P.ABU 01 FB 0034B CALLS #1, CLISPRESENT 50 F0 0034E INSV RO. #6, #1, QUAL_FLAGS+4	0846 0847
04	AB	01		69 06 01A8	01 FB 0034B	0849
01	AB	01	04	69 07 08 A8	50 F0 0034E CA 9F 00354 22\$: PUSHAB P.ABW 01 FB 00358	0852
			10	A8 A8 69	CA OF DOSAC 235 - PUSHAR PARY	0853 0855
02	A8	01	01	00 0f	CA 9F 0036C 238: PUSHAB P.ABY 01 FB 00370	0860
			10	68 A8 01C8		0860 0859 0861 0863
			0828	69 52 0824 C8 3FFFFFFF	CA 9F 0038B 24\$: PUSHAB P.ACA 01 FB 0038F CALLS #1, CLI\$PRESENT 50 E9 00392 BLBC R0, 26\$ CLRL MIN BLOCK 8F D0 00399 MOVL #1073741823, MAX_BLOCK CA 9F 003A2 PUSHAB P.ACC 01 FB 003A6 CALLS #1, CLI\$PRESENT 50 E9 003A9 BLBC R0, 25\$ 04 88 003AC BISB2 #4, QUAL_FLAGS+2 AE 9F 003B0 PUSHAB VALUE DESC CA 9F 003B3 PACE 02 FB 003B7 CALLS #2, CLI\$GET_VALUE CB 9F 003BE PUSHAB MIN BLOCK AE DD 003C2 PUSHAB MIN BLOCK AE 3C 003C5 MOVZWL VALUE DESC, -(SP) 03 FB 003C9 CALLS #3, LIB\$CV\$ DTB 50 D0 003D0 MOVL R0, STATUS 57 E9 003D3 BLBC STATUS, 27\$ TSTL MIN BLOCK BISB2 #1, QUAL_FLAGS+4 P.ACG 01 FB 003E4 PSHAB P.ACG CALLS #1, CLI\$PRESENT	0866 0867 0868
			02	01E8 69 34 A8	01 FB 003A6 CALLS #1, CLISPRESENT 50 E9 003A9 BLBC R0, 25\$ 04 88 003AC BISB2 #4, QUAL_FLAGS+2	0871 0872
			000000006	0208	AE 9F 003B0 PUSHAB VALUE_DESC CA 9F 003B3 PUSHAB P.ACE 02 FB 003B7 CALLS #2, CLISGET_VALUE	6
			00000000G	7E 34 34 57 57	01 FB 003A6	0873 0874 0873
			3000000	57 38 0824	50 DO 003DO MOVL RO, STATUS 57 E9 003D3 BLBC STATUS, 27\$ C8 D5 003D6 TSTL MIN_BLOCK	0876
			04	A8 69 0228	C8 D5 003D6 TSTL MIN_BLOCK 3F 19 003DA BLSS 30\$ 01 88 003DC BISB2 #1, QUAL_FLAGS+4 CA 9F 003E0 25\$: PUSHAB P.ACG 01 FB 003E4 CALLS #1, CLI\$PRESENT	0882 0884

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	92	37 A8	50 E9 003E7 26\$: BLBC RO. 31\$ 04 88 003EA BISB2 #4, QUAL FLAGS+2 AE 9F 003EE PUSHAB VALUE DESC	0887 0888
	00000000G	00	02 FB 003F5 PUSHAB P.ACI 02 FB 003F5 CALLS #2, CLISGET_VALUE	•
		0828	AE DD 00400 PUSHL VALUE DESC+4	0889 0890 0889
	0000000G	00	03 FB 00407 CALLS #3, LTB\$CVT_DTB	0889
		03	57 E8 00411 27\$: BLBS STATUS, 29\$	0892
		0828	C8 D5 00414 288: BRW 408 C8 D5 00417 298: TSTL MAX_BLOCK	•
	04	A8	01 88 0041D BISB2 #1, QUAL_FLAGS+4	0898 0901
40	01	69	01 FB 00425 CALLS #1, CLISPRESENT	: 0901
AO		2F	50 E9 0042E BLBC RO. 34\$	
	04	0264	CA 9F 00435 PUSHAB P.ACM	0904
	0.2	04	50 E9 0043C BLBC RO. 32\$	
	UZ	0270	CA 9F 00443 328: PUSHAB P.ACO	0906 0907
	na	04	50 E9 0044A BLBC RO 33\$	0000
	02	0290	CA 9F 00451 338: PUSHAB P.ACQ	0908 0909
	65	05	50 E9 00458 BLBC RO, 34\$. 0010
	ve.	02A0	CA 9F 00460 348: PUSHAB P.ACS	0910 0912
A8	01	07	50 FO 00467 INSV RO. #7, #1, QUAL_FLAGS+2	0913
A8	01	69	01 FB 00471 CALLS #1, CLISPRESENT	
	•	0200	CA 9F 0047A PUSHAB P.ACH 01 FB 0047F CALLS #1. CLISPRESENT	0914
48	01	01 2f	50 FO 00481 INSV RO. #1, #1, QUAL_FLAGS+3 50 F9 00487 BLBC RO. 36\$	
		0200	AE 9F 0048A PUSHAB VALUE DESC	0917
	00000000G	00	02 FB 00491 CALLS #2. CLISGET VALUE C8 9F 00498 PUSHAB VERSION COUNT	0918
		7E 34	AE DD 0049C PUSHL VALUE DESC+4 AE 3C 0049F MOVZWL VALUE DESC, -(SP)	0918 0918
	00000000G	00 57	03 FB 004A3 CALLS #3. LTB\$CVT_DTB 50 DO 004AA MOVL RO. STATUS	•
		0660	57 E9 004AD BLBC STATUS, 35\$ C8 D5 004BO TSTL VERSION COUNT	0921
			03 14 00484 BGTR 36\$ 001 31 00486 35\$: BRW 40\$	
		69 02 02E0	CA 9F 004B9 368: PUSHAB P.ADA 01 FB 004BD CALLS #1. CLISPRESENT 50 FO 004CO INSV RO. #2, #1. QUAL_FLAGS+3	0928
	A8	000000006 000000006 04 04 02 02 02 02 02 08 01 08 01 08 01	00000000G 00 0248 0828 34 00000000G 00 57 03 0828 01 02 48 0254 0264 02 48 0270 02 48 0290 02 48 02 40 0	000000000

					G 16 15-Sep-1 14-Sep-1	984 23:38 1984 12:19	3:58 3:31	VAX-11 B	liss-32 V4.0- DIRECTORY.B3	742 2:1	Page 29 (4)
	03		0100	E8 0040	6	BLBS	RO 43\$	37\$			
		02F8	0100 AE CA 02 CB	\$1 0040 9F 0040 9F 0040 FB 0040 9F 0040	C 375:	PUSHAB	VAL	UE_DESC			0931
0000000G	00	0210	ğğ	FB 0040	3	CALLS	P.AI	CLISGET_VAI	LUE		0073
	70	0814 34 34	AE	9F 004D	E	PUSHAB PUSHL MOVZWL	AVE	PLAY WIDTH UE_DESC+4			0932 0933
00000000G	7E 00 57	34	03	DD 004D 3C 004E FB 004E	5	MOVZWL CALLS MOVL	WAL	LIBSCVT_DTE	SP) B		0932
	57 C4		50 57	DO 004E E9 004E		BLBC	RO.	UE_DESC+4 UE_DESC, -(S LIB\$CV1_DTE STATUS TUS, 35\$			0935
		0814	AAOSSCBACOCAES	D5 004F 19 004F	2	TSTL BLSS	DIS	PLAY_WIDTH			
		0310	AE	9F 004F	8	PUSHAB PUSHAB	VALI P. Al	UE_DESC			0941
0000000G	00		Ŏ2	FB 004F	F	CALLS	#2.	CLISGET_VAL	LUE		
		0818 34 34	AE	DD 0050	A	PUSHAB PUSHL	VAL	ENAME_WIDTH			0942
0000000G	7E 00 57	34	AE 03	3C 0050 FB 0051	1	MOVZWL	VAL	LIBSCUT DI	SP)		0942
	57 60		50	DO 0051 E9 0051	8 B	CALLS MOVL BLBC	RO.	UE_DESC+4 UE_DESC, -() LIB\$CV1_DT(STATUS TUS, 40\$			0945
		0818	82	05 0051 19 0052	E	BLBC TSTL BLSS	FIL!	ENAME_WIDTH			. 0143
0818	C8		05	12 0052	4	BNEQ	38\$	E EL CALAME	110711		0951
0010	LO	0324	AE	00 0052 9F 0052	B 38%:	MOVL PUSHAB	VAL	FILENAME_	MIDIM		0952
00000000G	00		50	9F 0052 FB 0053 9F 0053	Ş	PUSHAB	P. AI	CLISGET VAL	LUE		
		081C 34 34	C8 AE	DD 0053	D	PUSHAB	VAL	ER WIDTH JE DESC+4 JE DESC, -(!			0955
00000000G	7E	34		3C 0054 FB 0054	0	MOVZWL	VALI	JE DESC (S	SP)		0953
	00 57 39		50 57	DO 0054	B	BLBC	RO.	LIBSCVT_DTE			0956
	3,	0810	(8 33 05	E9 0054 D5 0055 19 0055	1	TSTL	OWN	TUS, 40\$ R_WIDTH			. 0770
0016			05	12 0055	7	BLSS	40\$ 39\$	0.000			0962
081C	CB	0338	AE	00 0055 9F 0055	. 205	MOVL PUSHAB	VAL	, OWNER_WIDT JE_DESC	TH .		0963
00000000G	00		OS	DO 0055 9F 0055 9F 0056 FB 0056 9F 0056	5	PUSHAB	P.AI	CLISGET_VAL	UE		
		0820 34 34			C	CALLS PUSHAB PUSHL	SIZE	CLISGET_VALE WIDTH JE_DESC+4 JE_DESC, -(S LIBSCVI_DTE STATUS TUS, 408 _WIDTH			0964
00000000G	7E	34	AE 03	3C 0057	3	PUSHL MOVZUL CALLS	VAL	JE DESC (S	(P)		0964
	7E 00 57 06		50	DD 0057 3C 0057 FB 0057 DO 0057 E9 0058	É	MOAF.	RO.	STATUS			0967
	VO	0820	82	0058 0058 0058	4	BLBC	SIZE	MIDIH			; 0967
		0830	68	9F 0058	A 40%:	BGEQ PUSHAB	UVII	TUY_RAB			0970
0000000G	00	0830	C8 C8 C1 C8 C1 AE	FB 0058 9F 0059	5	PUSHAB	outr	SYSSFLUSH PUT_RAB			
0000000G	00	20	O1	9F 0054	9	CALLS PUSHAB	WALL	PUT_RAB SYSSWAIT JE_DESC			
			01	こひ いいつん	3	PUSHL	# 1				•
		007910FC	8f	DD 005A	15	PUSHL	#793	54204			•

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	04	14	AB	000000006	00		03	FB 005AB ED 005B2		CALLS	#3. #0. 41\$	LIB\$SIGNAL #3, WORST_ERROR, #4	8
				14	AB	107910FC	00 08 8F	FB 005AB ED 005B2 18 005B8 DO 005BA 31 005C2 12 005C5 DO 005C7 DD 005CC FB 005CE DO 005D5 E9 005D8	418.	BGEQ MOVL BRW	1276	369660, WORST_ERROR	0071
				0820	68		038C 05	12 005C5 00 005C7	418:	BNEQ	86\$ 43\$ #6 R11	SIZE_WIDTH	0971
				0000000G			06 5B 01 50 57 C8	DD 005CC FB 005CE	438:	PUSHL	R11		0978
					00 57 11	0870	57	DO 005D5 E9 005D8		MOVL BLBC PUSHAB CALLS	RO, STA1	SYSSCREATE STATUS US. 448	0979 0985
				0000000G	00 57	0830	01 50	FB 005DF		CALLS	#1. BO	OUT RAB SYSSCONNECT STATUS	0985
					ÓB		50 57 58 8F	FB 005CE D0 005D5 E9 005D8 9F 005DB FB 005DF D0 005E6 E8 005E9 DD 005EC DD 005EC	448:	MOVL BLBS PUSHL	RII	STATUS US, 45\$	0986 0989
			70	40	40	007910A4	0355	DD 005EE 31 005F4		PUSHL BRW	#793	4116	
	10		3E 00	40	AB 6E	10	00	E1 005F7 2C 005FC 00601	458:	BBC MOVC5	*0 .	OUTPUT FAB+64, 46\$ (SP), #0, #28, GETDVI_ARGS	0995 0998
				10	AE AE	00040004	8F AE	00 00603 9E 0060B 00 00610		MOVAB	#262 INDE	148, GETDVI ARGS V CLASS, GETDVI ARGS+4	0999
				14 10 20	AE AE AE	00080004	8F	9E 00618		MOVL	#524 INDE	148, GETDVI ARGS V CLASS, GETDVI ARGS+4 292, GETDVI ARGS+12 V_BUFSIZ, GETDVI_ARGS+16	0999 1000 1001 1002 1005
						20	020 000 8F 8F 7E 7E 08 57 01CA	DO 00603 9E 0060B DO 00610 9E 00618 7C 0061D 7C 0061F 9F 00621 9F 00624 7C 00628		CLRQ CLRQ PUSHAB	-(2)	')	1005
						034C	CA 7E	9F 00624 7C 00628		PUSHAB	P.AD	VI_ARGS	
				0000000G	00 57 03		08 50	FB 0062A D0 00631		CLRQ CALLS MOVL	#8. RO.	SYSSGETDVI STATUS US, 46\$	
					03	091/	01CA	DO 00631 E8 00634 31 00637		BRW	713		1006
				00000042	8F	0814	15 15	12 0063E	468:	TSTL BNEQ	485	LAY_WIDTH	1013
				08			05 8F	13 00648 9A 0064A		CMPL BEQL MOVZBL		V_CLASS, #66 . INDEV BUFSIZ	1010
			18 13	0814	AE (8 68	84 08	AE 03	DO 0064F EO 00655	47 5 :	MOVL BBS BBS TSTB	INDE	V BUFSIZ, DISPLAY WIDTH QUAL FLAGS, 49\$	1017
			13	01	A8	01	05 A8	E0 00659 95 0065E		BBS TSTB	0UAL	V BUFSIZ, DISPLAY_WIDTH QUAL_FLAGS, 49\$ QUAL_FLAGS+1, 49\$ _FLAGS+1 QUAL_FLAGS+2, 49\$	1024
			09	02	A8 05 A8	01	03	E0 00663		BLSS BBS BLBS	#3.	QUAL FLAGS+2, 498	1025
			09	01	A8	03	03 A8	E0 0066C 95 00671	498:	BBS TSTB	W3.	QUAL FLAGS+1, 508	1026
				08	A8 10		04	18 00674 00 00676		BBS BLBS BBS TSTB BGEQ MOVL BLBC TSTL	508	QUAL FLAGS+2, 49\$ FLAGS+1, 49\$ QUAL FLAGS+1, 50\$ _FLAGS+3 COLUMN COUNT _FLAGS+4, 52\$ T_XAB	1027 1031
					10	04 0668	80	D5 0067E	50\$:	TSTL	FIRS	T_XAB	1034
				0668	56	0738	ACSFE35880840188C8608608	7C 0061D 7C 0061F 9F 00621 9F 00628 FB 00628 FB 00631 EB 00631 EB 00637 D5 0063E D1 00640 13 00648 9A 00648 9A 00648 9A 00665 EO 00659 95 0065E 19 00663 EB 00668 EO 006674 D0 00676 E9 00674 D0 00676 E9 00678 D5 00682 9E 006884 D0 00689		BNE O MOVAB MOVL	INFO	PTR, FIRST_XAB	1035
				04	A6	0738	83	11 0068E 9E 00690	518:	BRB	528 INFO	_XABFHC, 4(XAB_PTR)	1036

DIRECTOR	Y
V04-000	

						15-Sep-1 14-Sep-1	984 23:3 1984 12:1	8:58	Page 31 (4)
10	04	56 A8	0738	C8	9E 006	96	MOVAB	INFO XABEHC, XAB PTR	
10	04	AO	0668	83	05 006	AO	BBC	INFO XABFHC, XAB_PTR #1, QUAL_FLAGS+4, 54\$ FIRST_XAB	1038
	0668	56 C8	0700	1018C86B8828C86B883	9E 006 00 006	A6 A8	BNEQ MOVAB MOVL BRB	1NFO XABDAT, XAB PTR XAB PTR, FIRST_XAB 548	1042
	04	A6 56	070C	C B	9E 006	82 538:	MOVAB	INFO XABDAT, 4(XAB PTR)	1043
10	04	A8		ÒŽ	E1 000	AD 548:	BBC	INFO XABDAT, XAB_PTR #2, QUAL FLAGS+4, 56\$ FIRST_XAB	1045
		84	0668	ÖÇ	05 006 12 006 9E 006	6	TSTL	338	: 1048
	0668	56 C8	0684	56	DO 006	CD	MOVAB	INFO XABPRO, XAB PTR XAB PTR, FIRST_XAB	1049
	04	A6	06B4	08 C8	11 006 9E 006	D4 558:	BRB	1NFO_XABPRO, 4(XAB_PTR)	1050
10	04	56 A8	0684	C8	9E 006	DA	MOVAB	INFO XABPRO, XAB PTR #3, QUAL_FLAGS+4, 588	1052
			0668	000	D5 006	£4	TSTL BNEQ	FIRST_XAB	1055
	0668	56 C8	06A8	56	9E 006	EF	MOVAB MOVL BRB	INFO XABSUM, XAB PTR XAB PTR, FIRST_XAB 58\$	1056
	04	A6 56	06A8 06A8	68	9E 006	F6 578:	BAVOM	INFO XABSUM, 4(XAB PTR) INFO XABSUM, XAB PTR	1057
45	04	A8		08 C8 C8 C8 C8	E1 007	01 588:	BBC	#4, QUAL FLAGS+4, 615	1059
			0668	ÖC	D5 007	OA	TSTL	FIRST_XAB 598	1062
	0668	56	0660	56	9E 007 00 007 11 007	11	MOVAB	INFO XABJNL, XAB PTR XAB PTR, FIRST XAB	: 1063
	04	A6	0660	08	9E 007	18 598:	BRB	60\$ INFO_XABJNL, 4(XAB_PTR)	1064
		56 50	066C	C8	9E 007	1E	MOVAB	INFO_XABJNL, XAB_PTR	1065
	0684 0680 0670 0678		0199	CO	9E 007	27	MOVAB	409(RO) TINFO XABJNL+24	
	0670	C8 C8 C8 C8 C8 A8	OTAA	0 10 0 10	9E 007	33	MOVAB	426(RO), INFO XABUNL+16	1066
	068C 0688	68	01BB	CO	9E 007	3F	MOVAB	443(RO), INFO_XABJNL+32	: 1068 : 1069
50	10	A8	0818 01	10 C8	90 007 C1 007	46 4B 618:	MOVB ADDL 3	#16, INFO XABJNL+28 FILENAME DIDTH, COLUMN_WIDTH, RO	1070 1078
00	10	A8 A8	01	CO 10 C8 A0 05 C8 A0 03 C8 B840	9E 007	52 57	MOVAB	1(RO), COLUMN WIDTH #5. QUAL FLAGS+1, 62\$	1079
0C 50	10	A8	0810	83	C1 007	50	ADDL3 MOVAB	OWNER WINTH, COLUMN WINTH, RO	
22	10 10 02 02	A8 A8 A8 A8 A8	08	Ô3	E1 007	68 628:	BBC	#3. QUAL_FLAG5+2. 64\$	1080
11		50	0820	68	00 007	72	BBC BBC MOVL	SIZE WIDTH, RO	1083
	10	A8	10	02	CO 007	70	ADDL2	DISPERY BLOCK, RU 409(RO), INFO XABJNL+24 #16, INFO XABJNL+20 426(RO), INFO XABJNL+16 #16, INFO XABJNL+12 443(RO), INFO XABJNL+32 #16, INFO XABJNL+32 #16, INFO XABJNL+28 FILENAME DIDTH, COLUMN_WIDTH, RO 1(RO), COLUMN WIDTH #5, QUAL FLAGS+1, 628 OWNER WIDTH, COLUMN_WIDTH, RO 2(RO), COLUMN WIDTH #3, QUAL FLAGS+2, 648 #4, QUAL FLAGS+2, 638 SIZE WIDTH, RO aCOLUMN WIDTH(RO), COLUMN_WIDTH #2, COLUMN_WIDTH	
50	10	A8	0820	02 00 00 00 00 00 00 00 00 00 00	9E 007 9E 007 9E 007 9E 007 9E 007 9E 007 9E 007 9E 007 11 007 9E 007 11 007 9E 007 11 007 9E	81 83 638:	BRB ADDL3	SIZE WIDTH COLUMN WIDTH BO	1085
1F	10	A8 68 68 68	02	04	9E 007	8F 648:	MOVAB BBS	2(ROT, COLUMN WIDTH #4, QUAL_FLAGS, 65\$ #6, QUAL_FLAGS, 65\$ #5, QUAL_FLAGS, 65\$ QUAL_FLAGS	1087
18		68		06	EO 007	93	BBS BBS	#6, QUAL FLAGS, 65\$	1088
		00		68	95 007	98	TSTB	QUAL_FLAGS	: 1000

DIRECTORY VO4-000							J 16 5-Sep- 4-Sep-	1984 23:38 1984 12:19	:58	VAX-11 Bliss-32 V4.0-742 [DIR.SRC]DIRECTORY.B32;1	Page 3
	0E	01	84	01	13 05 48	19 00790 E0 00790 95 0074		BLSS BBS TSTB	65\$ #5.	QUAL_FLAGS+1, 65\$	108
	04	02	A8		09	19 007A		BLSS	42 4	FLAGS+1 DUAL_FLAGS+2, 658	109
		10 0814	A8	01	04	E9 007A	65\$:	BLBC ADDL2	QUAL #4	FLAGS+1, 668 COLUMN_WIDTH	109
	51	0814	C8 51 50 51	10	A8 03 A4 04 A8 50	95 007A 19 007A E0 007A E9 007A C1 007B C1 007B C6 007B D0 007C D1 007C		BLSS BBS TSTB BLSS BBS BLBC ADDL2 ADDL3 DIVL2 MOVL CMPL BGTRU BRB	COLU	FLAGS+1, 66\$ COLUMN WIDTH DISPLAY WIDTH, R1 MN WIDTH, R1 MN COUNT, R0 R1	109
	51	0814	C8 50 51	10	13 A8 A8 50 03	1A 007C 11 007C C7 007C D0 007D D1 007D 1B 007D	665:	BRB DIVL3 MOVL CMPL BLEQU MOVL	COLUI	MN_WIDTH, DISPLAY_WIDTH, R1 MN_COUNT, RO R1	109
		80	50 A8		-	DO 007DI	675:	MOVL MOVL BLEQ	RO 685 R1 , RO 695	RO COLUMN_COUNT	
		08	04 A8		503 68 01 8F AE2 507	E9 007E	408.	BLBC	QUAL	FLAGS, 708	109
		04	AE	18 01FF	A8	9F 007E1 3C 007E1 9F 007F FB 007F DO 007F1 E8 0080	698: 70 \$:	BLBC MOVL PUSHAB MOVZWL PUSHAB	CMN (FLAGS, 708 COLUMN COUNT QUAL CTX , 4(5P)	110
		000000006		01FE 04	AE 02	9F 007F		PUSHAB	4(SP	LIBSQUAL FILE PARSE	iio
			00 57 37		50 57	DO 007F1 E8 0080 9F 00804		CALLS MOVL BLBS PUSHAB	RO.	LIBSQUAL_FILE_PARSE STATUS US, 74\$ UT_RAB SYSSFLUSH UT_RAB SYSSWAIT	111
)	0000000G	00	0830	C8 01 C8 01 57	9F 00804 9F 00804 9F 00804	715:	CALLS	#1	UT_RAB SYS\$FLUSH	111
	1	000000006	00	0830	01	FB 00813		CALLS PUSHAB CALLS PUSHL	#1	SYSSWAIT	•
	1	000000006	00 07		01 57	DD 0081/ FB 0081(93 0082)		CALLS BITB BNEQ	STATE #1 STATE	IB\$SIGNAL US. #7	•
50 50 14	57 A8		03 03		573 01200 000 F88E COAE 068 CA30557	DD 0081/ FB 0081/ 93 0082/ EF 0082/ EF 0083/ 9F 0083/ 9F 0083/ 9F 0083/ 9F 0084/ PO 0084/ PO 0084/ PO 0085/ PF 0085/ 9F 0085/ 9F 0085/ 9F 0086/ FB 0086/ FB 0086/ FB 0086/ FB 0086/ FB 0086/ FB 0086/ FB 0087/ E8 0087/	72 \$: 73 \$:	BREW EXTZV CMPZV BGEQ BRW PUSHAB PUSHAB CALLS MOVL MOVB BRS	86\$ #0. #0. 72\$	JS JB\$SIGNAL JS, #7 V3, STATUS, RO V3, WORST_ERROR, RO DESC LISGET_VALUE DESC, INPUT_FAB+44 DESC, INPUT_FAB+52 JUAL_FLAGS+1, 75\$ FLAGS, 76\$ AT_ACL_ADDR JSATUS JS, 75\$ FLAGS+4, 77\$	
				035C	AE	9F 0083	748:	PUSHAB	FILE	DESC	111
		900000000	OO AD	38	02 AE	FB 0084		CALLS	#2. (LISGET_VALUE DESC+4. INPUT FAB+44	111
	03	01 01	AD AD AB 1B	38 34	AE 01	90 0084 E0 0085		MOVB BBS	FILE	DESC, INPUT_FAB+52 JUAL_FLAGS+1, 75\$	112
			18	FC	68 AB	9F 0085	758:	BLBC PUSHAB	FORM)	FLAGS, 768 T_ACL_ADDR	115
		00000000	00	0388 0370	CA	31 00838 9F 00838 FB 00846 90 00849 90 00849 EO 00858 9F 00858 9F 00858 9F 00866 DO 00868 E8 00876 31 00873		BLBC PUSHAB PUSHAB CALLS MOVL BLBS BRW BLBS BBS	P. ADO	I DAE IND IMACE CYMDOL	111 112 112 112 113
		00000000G	00 57 03		§ 9	00 00860		MOVL	RO. S	STATUS STATUS	113
					F81F	31 00873 E8 0087	768:	BRW	15 QUAL	FLAGS+4. 77\$	114
	OF	04	14 A8		01	E8 00876 E0 00876		BBS	#1, 0	FLAGS+4, 778 TUAL_FLAGS+4, 778	

DIRECTORY VO4-000					1	16 -Sep-1 -Sep-1	984 23:38: 984 12:19:	58 VAX-11 BLiss-32 V4.0-742 LDIR.SRCJDIRECTORY.832;1	Page 33 (4)
	0A 05 0C	04 A8		50	E0 0087F		88S	#2, QUAL_FLAGS+4, 77\$ #3, QUAL_FLAGS+4, 77\$ #4, QUAL_FLAGS+4, 78\$ #64, INPOT_NAM+8 FIRST_XAB, INPUT_FAB+36 SCAN_CONTEXT DIRSINPUT_ERROR DIRSGET_INFO INPUT_FAB #4, LIBSFILE_SCAN INPUT_FAB	; 1148
	ŎĆ	04 A8 04 A8 04 A8 FF58 CD D4 AD	40	04	E0 00884 E1 00889 88 0088E	778:	BBC B1SB2	#4. QUAL FLAGS+4, 78\$	1149
		D4 AD	0668	68	00 00894 9F 0089A	788:	MOVL	FIRST XAB TINPUT FAB+36	1149 1152 1153 1156
			0000v 0000g	BF CB AE CF	9F 0089D	100.	PUSHAB	DIRSINPUT ERROR	; 1130
	000	00000G 00	В0	AD 04	9F 0089D 9F 008A1 9F 008A5 FB 008A8 9F 008AF		PUSHAB	INPUT FAB	•
	-	0000V CF	B0	AD 01	9F 008AF		PUSHAB	INPUT FAB	1161
		80	34	50 A8	FB 008B2 E8 008B7 B5 008BA		MOVL PUSHAB PUSHAB PUSHAB CALLS PUSHAB CALLS BLBS TSTW BEQL PUSHAR	#1, DIRSGET_FILE RO, 76\$ LINE_DESC 79\$	1163
			34	A8	9F 008BF		PUSHAB	LINE_DESC	
		0000V CF		7E	PB 008C2		PUSHAB CLRL CALLS TSTL	-(SP) #2, DIR\$OUTPUT TOTAL_FILES	
		00000 40	0444	05	D5 008C9 13 008CD	798:	BEGF	803	1164
		0000G CF	0454	68	FB 008CF D1 008D4 14 008D9	808:	CALLS CMPL BGTR	MO, DIRSTOTAL GRAND DIRS, M1	1165
	05	01 A8 0000G CF		00	E1 00808 F8 008E0	918.		815 #2, QUAL FLAGS+1, 828	1166
	47	04 AB	14	A8 05	E9 008E5 E0 008E9	81\$: 82\$:	CALLS BLBC BBS	WORST ERROR, 84\$	1166 1167 1172
		000006 00	0830	C8	9F 008EE FB 008F2		PUSHAB CALLS PUSHAB CALLS PUSHL CALLS TSTL	#2, QUAL FLAGS+1, 828 #0, DIR\$GRAND TOTAL WORST ERROR, 84\$ #5, QUAL FLAGS+4, 84\$ OUTPUT RAB #1, SYS\$FLUSH OUTPUT RAB #1, SYS\$WAIT #DIR\$ NOFILES #1, LIB\$SIGNAL # <dir\$_nofiles&7> B3\$</dir\$_nofiles&7>	1175
		000006 00	0830	C8	9F 008F9 FB 008FD		PUSHAB	OUTPUT RAB	•
		000006 00	000000006	8F 01	DD 00904		PUSHL	WDIRS NOFILES	•
			00000000	8f 14	D5 00911 13 00917				
00000000	8 A	03		00 08 8F	ED 00919 18 00923		CMPZV BGEQ	#0, #3, WORST_ERROR, # <dir\$_nof!< td=""><td></td></dir\$_nof!<>	
		14 A8 14 A8	000000000 10018290	8F	DO 00925	83\$: 84\$:	MOVL	# <dir\$_nofiles!268435456>, WORS1 #268534416, WORST_ERROR R11</dir\$_nofiles!268435456>	; 1177
	000	000006 00 57		01	DD 00935 FB 00937	845:	PUSHL	#1. SYSSCLOSE RO, STATUS	1180
		00		57	E8 00941		BLBS	STATUS, 863	1181
		0000V CF	0079105A	8F	DD 00944 DD 00946	958.	PUSHL	R11 #7934042	
		0000V CF 50	14	A8	00 00951 04 00955	85\$: 86\$:	CALLS MOVL RET	#2, DIR\$FILE_ERROR WORST_ERROR, RO	1183 1185

; Routine Size: 2390 bytes. Routine Base: \$CODE\$ + 0000

```
ROUTINE DIRSGET_FILE (FILE_FAB) =
144
            FUNCTIONAL DESCRIPTION:
                    This routine gets the next file specification in the command line. If there are no more files, the routine returns zero. Otherwise, the file specification is placed in the specified FAB for later
                    parsing and searching.
            CALLING SEQUENCE:
DIRSGET_FILE (ARG1)
            INPUT PARAMETERS:
                    ARG1: address of the FAB into which the file spec is placed
            IMPLICIT INPUTS:
                   none
            OUTPUT PARAMETERS:
                    none
            IMPLICIT OUTPUTS:
                   none
            ROUTINE VALUE:
1 if a file specification was found
                   0 otherwise
            SIDE EFFECTS:
                    The retrieved file specification is placed into the specified
                   FAB for later parsing.
         BEGIN
         MAP
                   FILE_FAB
                                        : REF $BBLOCK:
                                                                               ! FAB address
         LOCAL
                   FILE_DESC
SCAN_FLAGS
                                       : $BBLOCK [DSC$C_S_BLN],
: $BBLOCK [4];
                                                                                ! File name descr
                                                                                ! SFILESCAN flags
          ! Initialise needed variables.
         CHSFILL (O, DSCSC S BLN, FILE DESC);
FILE DESCEDSCSB (CASS) = DSCSK CLASS D;
         ! If there are no more file specifications, return with zero.
          IF NOT CLISGET_VALUE (SDESCRIPTOR ('INPUT'), FILE_DESC) THEN RETURN 0;
          ! Otherwise, fill in the appropriate fields in the FAB.
         FILE_FAB(FAB$L_FNA) = .FILE_DESC(DS($A_POINTER);
```

```
M 16
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.B32:1
                             1243
1244
1244
1244
1249
1255
1255
1255
1255
1259
     846
847
848
850
851
852
853
                                            FILE_FAB(FAB$B_FNS) = .FILE_DESC(DS($W_LENGTH);
                                              Determine whether or not the new spec is to get a new heading.
                                           SCAN_FLAGS = 0:

$filescan (SRC$TR = FILE_DESC, FLDFLAGS = SCAN_FLAGS):

IF .SCAN_FLAGS[FSCN$V_NODE] OR .SCAN_FLAGS[FSCN$V_DEVICE]

OR .SCAN_FLAGS[FSCN$V_ROOT] OR .SCAN_FLAGS[FSCN$V_DIRECTORY]

THEN
                                                   BEGIN
                                                   VERSION INDEX = 0;
PREV_DIR_LEN = PREV_FILE_LEN = 0;
     860
861
862
                                            RETURN 1:
                                            END:
                                                                                                                                    ! End of routine DIRSGET_FILE
                                                                                                                                        .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                                             00390 P.ADT:
00395
                                                                         54 55 50 4E 49
                                                                                                                                        .ASCII
                                                                                                                                                      \INPUT\
                                                                                                                                        .BLKB
                                                                                           00000005
                                                                                                              00398 P.ADS:
                                                                                           00000000
                                                                                                              00390
                                                                                                                                        ADDRESS P.ADT
                                                                                                                                        .EXTRN SYSSFILESCAN
                                                                                                                                        FSECT
                                                                                                                                                     SCODES, NOWRT, 2
                                                                                                    007C 00000 DIRSGET
                                                                                                                                       .LE:
                                                                                                                                                     Save R2,R3,R4,R5,R6
VERSION_INDEX, R6
#12, SP
#0, (SP), #0, #8, FILE_DESC
                                                                                                                                                                                                                                          1186
                                                                                                             0000C
0000S
                                                                       56
5E
6E
                                                                                                        5C
C5
                                                                                                                                       MOVAB
SUBL 2
MOVC 5
                                                                             00000000°
                                                                                                 EF 000 AE 02 AE 02 050
                    08
                                             00
                                                                                                                                                                                                                                          1233
                                                                                                             00011
00013
00017
                                                                                        04
                                                                                                                                                     #2, file_desc+3
file_desc
P.ADS
#2, CLISGET_VALUE
R0, 38
file_fAB, R0
file_desc+4, 44(R0)
file_desc, 52(R0)
SCAN_FLAGS
SP
                                                              07
                                                                                                                                       MOVB
                                                                                                                                                                                                                                          1234
                                                                                                                                       PUSHAB
                                                                                                             0001A
0001E
00025
                                                                                    0000°
                                                                                                                                       PUSHAB
                                                   0000000G
                                                                                                                                       CALLS
                                                                                                                                       BLBC
                                                                                                 ACAE SEE ACS
                                                                                                                                        MOVL
                                                                                                                                                                                                                                           1242
                                                              2C
                                                                       AŬ
AŬ
                                                                                                                                       MOVL
                                                                                                                                       MOVB
                                                                                                                                       CLRL
                                                                                                                                       PUSHL
                                                                                                                                       CLRL
                                                                                                                                                      -(SP)
                                                                                                                                                      FILE DESC
#3, SYSSFILESCAN
                                                                                        00
                                                                                                                                       PUSHAB
                                                                                                                                       BLBS
                                                   00000000G
                                                                                                                                                     SCAN FLAGS, 18
#1, SCAN FLAGS,
#2, SCAN FLAGS,
#3, SCAN FLAGS,
VERSION INDEX
PREV_FILE LEN
PREV_DIR_CEN
                                                                                                                                                                                                                                          1249
                                                                       6E
6E
                                              C8
04
09
                                                                                                                                       885
                                                                                                                                       BBS
                                                                                                                                                                                                                                          1250
                                                                                                                                       CLAL
                                                                                                                                                                                                                                          1253
                                                                                                                        15:
                                                                                    FEF4
                                                                                                                                       CLRL
```

VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.B32;1

50

01 D0 0005E 28: 04 00061 50 D4 00062 38: 04 00064

#1. RO

; 1257

MOVL RET CLRL RET RO

1259

: Routine Size: 101 bytes, Routine Base: \$CODE\$ + 0956

D15

00020

RET

DI:

1300

15-Sep-1984 23:38:58

VAX-11 Bliss-32 V4.0-742 [DIR.SRC]DIRECTORY.B32;1 Page 38 (6)

; Routine Size: 33 bytes, Routine Base: \$CODE\$ + 0988

DIS

2 ELSE

DI:

DIRECTORY VO4-000				F 1 15-Sep- 14-Sep-	1984 23:38:58 VAX-11 Bliss-32 V4.0-742 1984 12:19:31 [DIR.SRC]DIRECTORY.B32:1	Page 40 (7)					
965 966 967 968 969 970 971 972 973 974 975 976	1360 1361 1362 1363 1364 P 1365 1366 1367 1368 1369 1370	BEGIN FILE_NAME[DSC\$W_LENGTH] = .FILE_FAB[FAB\$B_FNS]; FILE_NAME[DSC\$A_POINTER] = .FILE_FAB[FAB\$C_FNA]; END;									
	P 1365 1366	2 SIGNAL (.ERROR	SIGNAL (.ERROR_CODE, 1, FILE_NAME, .FILE_FAB[FAB\$L_STS], .FILE_FAB[FAB\$L_STV]);								
	1367 1368 1369	IF .WORST ERRO	IF .WORST ERROR EQL (.ERROR CODE OR STSSM INHIB MSG) THEN WORST_ERROR = .FILE_FAB[FAB\$L_STS] OR STSSM_INHIB_MSG;								
	1370 1371 1372 1373	RETURN 1;									
	13/3	1 END;			! End of routine DIR\$FILE_ERROR						
			58 000000000	01FC 00000 EF 9E 00002	.ENTRY DIRSFILE ERROR, Save R2,R3,R4,R5,R6,R7,R8 MOVAB WORST ERROR, R8 SUBL2 #8, SP	: 1303					
1	0.0	00	58 00000000° 5E 57 08 56 28 6E	EF 9E 00002 08 C2 00009 AC D0 0000C A7 D0 00010 00 2C 00014	MOVL FILE FAB, R7 MOVL 40(R7), R6	1341					
	80	00	03	00 2C 00014 6E 00019 A6 95 0001A 0B 13 0001D	MOVES WO, (SP), WO, WB, FILE_NAME TSTB 3(R6)	1346					
		04	6E 03 AE 04	A6 9B 0001F A6 D0 00023	BEQL 18 MOVZBW 3(R6), FILE_NAME MOVL 4(R6), FILE_NAME+4	1350 1351 1347 1353					
			08	19 11 00028 A6 95 0002A 1\$: 0B 13 0002D	BRB 35 TSTB 11(R6) BEQL 25	0					
		04	6E 0C	0B 13 0002D A6 9B 0002F A6 D0 00033 09 11 00038	MOVZBW 11(R6), FILE_NAME MOVL 12(R6), FILE_NAME+4	1356 1357 1353					
		04	6E 34 2C 081C	A6 98 0001F A6 D0 00023 19 11 00028 A6 95 0002A 1\$: 0B 13 0002F A6 D0 00033 09 11 00038 A7 98 0003A 2\$: A7 D0 0003E C8 9F 00043 01 FB 00047 C8 9F 00045 01 FB 00052 A7 7D 00059 AE 9F 0005D 01 DD 00060 AC D0 00062 52 DD 00066	MOVZBW 52(R7), FILE_NAME MOVL 44(R7), FILE_NAME+4 PUSHAB OUTPUT RAB CALLS #1, SYS\$FLUSH PUSHAB OUTPUT RAB CALLS #1, SYS\$WAIT MOVQ 8(R7), -(SP) PUSHAB FILE_NAME PUSHL #1	1356 1357 1353 1361 1362 1366					
!		000000006	0810	01 FB 00047 C8 9F 0004E	CALLS #1, SYS\$FLUSH PUSHAB OUTPUT RAB						
1		000000006	00 7E 08 08	A7 9B 0003A 2\$: A7 D0 0003E C8 9F 00043 3\$: O1 FB 00047 C8 9F 0004E O1 FB 00052 A7 7D 00059 AE 9F 0005D O1 DD 00060 AC D0 00062 52 DD 00066 O5 FB 00068	MOVQ 8(R7), -(SP) PUSHAB FILE_NAME						
			52 04	01 DD 00060 AC DO 00062	PUSHL #1 MOVL ERROR_CODE, R2	•					
		00000000G	00	05 FB 00068 52 93 0006F	MOVL ERROR_CODE, R2 PUSHL R2 CALLS #5, LIB\$SIGNAL BITB R2, #7	•					
	50 50	52 68	03 03	14 13 00072 00 EF 00074 00 ED 00079 08 18 0007E 8F C9 00080 01 F0 00088 48:	CALLS #1, SYSSWAIT MOVQ 8(R7), -(SP) PUSHAB FILE_NAME PUSHL #1 MOVL ERROR_CODE, R2 PUSHL R2 CALLS #5, LIBSSIGNAL BITB R2, #7 BEQL 48 EXTZV #0, #3, R2, R0 CMPZV #0, #3, WORST_ERROR, R0 BGEQ 48 BISL3 #268435456, R2, WORST_ERROR INSV #1, #28, #1, R2						
	52	68	52 10000000 10 52	A6 9B 0002F A6 D0 00033 09 11 00038 A7 9B 0003A 2\$: A7 D0 0003E C8 9F 00043 3\$: 01 FB 00047 C8 9F 0004E 01 FB 00052 A7 7D 00059 AE 9F 0005D 01 DD 00060 AC D0 00062 52 DD 00066 05 FB 00068 52 93 0006F 14 13 00072 00 EF 00074 00 ED 00079 08 18 0007E 8F C9 00080 01 F0 00080	BGEQ 48 BISL3 #268435456, R2, WORST_ERROR INSV #1, #28, #1, R2 CMPL WORST_ERROR, R2 BNEQ 58	1368					

D15

6 1 15-Sep-1984 23:38:58 14-Sep-1984 12:19:31 VAX-11 Bliss-32 V4.0-742 EDIR.SRCJDIRECTORY.B32;1

Page 41 (7)

A7 10000000 50 68

C9 00092 D0 0009B 5\$: 04 0009E

BISL3 MOVL RET

#268435456, 8(R7), WORST_ERROR #1, R0

; Routine Size: 159 bytes. Routine Base: \$CODE\$ + 09DC

DI

DI VO

.....

```
DIRECTORY
VO4-000
                                                                                                             15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.B32;1
                                                                                                                                                                                                                           (8)
                                                               BUFADR = MESSAGE_DESC,
                          1037
1038
1039
1041
1043
1043
1045
1045
1046
1051
1053
1055
1055
1057
                                               FAO_CTL_STRING = MESSAGE_DESC;
                                         ELSE FAO_CTL_STRING = .CONTROL_STRING;
                                         ! format the line.
                                              .FAO_CTL_STRING NEGA LINE_DESC
                                         THEN
                                               CHSFILL (0, DSCSC S BLN, LINE DESC);
LINE DESC[DSCSW_LENGTH] = 1024;
LINE_DESC[DSCSA_POINTER] = LINE_BUFFER;
                                               SFAOL (CTRSTR = .FAO_CTL_STRING,
OUTLEN = LINE_DESC,
OUTBUF = LINE_DESC,
                                                           PRMLST = ARGST;
                                               OUTPUT_RAB[RAB$L_RBF] = .LINE_DESC[DSC$A_POINTER];
OUTPUT_RAB[RAB$W_RSZ] = .LINE_DESC[DSC$W_LENGTH];
                                                END
   1060
1061
1062
1063
1064
1065
                                        ELSE
                                                BEGIN
                                               OUTPUT RAB[RAB$L RBF] = .FAO_CTL_STRING[DSC$A_POINTER];
OUTPUT_RAB[RAB$W_RSZ] = .FAO_CTL_STRING[DSC$W_LENGTH];
                                               END:
   1066
1067
1068
1069
1070
                                        STATUS = $RMS_PUT (RAB = OUTPUT_RAB);
                                        IF NOT .STATUS THEN DIRSFILE_ERROR (DIRS_WRITEERR, OUTPUT_RAB);
                                        LINE_DESCEDSCSW_LENGTH] = 0;
   1071
                                        RETURN 1;
   1072
   107
                           1467
                                        END:
                                                                                                                          ! End of routine DIRSOUTPUT
                                                                                                                              .EXTRN
                                                                                                                                          SYSSGETMSG, SYSSFAOL
                                                                                                                              EXTRN
                                                                                                                                          SYS$PUT
                                                                                             OOFC
                                                                                                     00000
00002
00009
0000E
00011
00013
00018
00020
00024
00027
0002A
0002D
                                                                                                                                          DIRSOUTPUT, Save R2,R3,R4,R5,R6,R7
LINE DESC, R7
-264(SP), SP
                                                                                                                                                                                                                        1374
                                                                                                                              .ENTRY
                                                                  57
5E
                                                                       00000000
FEF8
                                                                                                9E 955
                                                                                                                             MOVAB
                                                                                          CECAOOD BEOOD ADCO
                                                                                                                             MOVAB
                                                                                                                                                                                                                        1423
                                                                                                                             TSTL
                                                                                                                                           MESSAGE_CODE
                                                                                                                             BEOL
                  08
                                          00
                                                                                                                                           #0, (SP), #0, #8, MESSAGE_DESC
                                                                  6E
                                                                                                                             MOVC5
                                                                                                                                                                                                                         1426
                                                                              0100
                                                                  AD
AD
7E
                                                                                                                                           #256, MESSAGE_DESC
MESSAGE_TEXT, MESSAGE_DESC+4
#1, -(SP)
                                                                                                80
9E
70
9F
9F
DD
FB
                                                                                                                             MOVW
                                                                                                                             BAVOM
                                                                                                                             POVO
                                                                                                                                           MESSAGE DESC
MESSAGE DESC
MESSAGE CODE
#5, SYS$GETMSG
                                                                                                                             PUSHAB
                                                                                                                             PUSHAB
                                                                                                                             PUSHL
                                                0000000G
                                                                  00
                                                                                                                             CALLS
```

DI

VÕ

DIRECTORY VO4-000							13	Sep-	1984 23:38 1984 12:19	:58 VAX-11 Bliss-32 V4.0-742 :31 [DIR.SRC]DIRECTORY.832;1	Page 44
			56	F8	AD 04	9E	00037		MOVAB	MESSAGE_DESC, FAO_CTL_STRING	: 1433
			56 50 50	08	AC 67	00 9E 01	0003B 0003D 00041 00044 00047 00049	1\$: 2\$:	MOVL MOVAB CMPL	CONTROL STRING, FAO_CTL_STRING LINE_DESC, RO FAO_CTL_STRING, RO	: 1433 : 1423 : 1435 : 1439
	08	00	6E		56 20 67	13 20	00049		BEQL MOVCS	#0. (SP), #0, #8, LINE_DESC	1442
		04	67 A7	0400 08 00	8F A7 AC 57	96 96 96	00054		MOVW MOVAB PUSHAU PUSHL	#1024, LINE_DESC LINE_BUFFER, LINE_DESC+4 ARGS R7	1443 1444 1449
		00000000G 0824 081E	00 67 67	0000	8F 04 A7	DD BB F B DO BO	0005C 0005E 00062 00069 0006F 00074		PUSHR PUSHR CALLS MOVL MOVW BRB	#AM <r6,r7> #4, SYSSFAOL LINE_DESC+4, OUTPUT_RAB+40 LINE_DESC, OUTPUT_RAB+34</r6,r7>	1451 1452 1439 1456
		0824 081E 00000000G	C7 C7	04 07FC	67 0B A6 66 C7	00 80 9f f B	00076 00070 00081 00085	38: 48:	MOVL MOVW PUSHAB	4(FAO_CTL_STRING), OUTPUT_RAB+40 (FAO_CTL_STRING), OUTPUT_RAB+34 OUTPUT_RAB #1, SYSSPUT	1456 1457 1460
		FEC3	OF OF	07FC 07910D4	50 C7 8F 02	68 9f DD fB B4	00076 0007C 00081 00085 0008C 0008F 00099 00099 000A0 000A3		CALLS BLBS PUSHAB PUSHL CALLS	STATUS, 58 OUTPUT_RAB #7934164 #2, DIR\$FILE_ERROR	1461
			50		67	B4 00 04	0009E 000A0 000A3	58:	CALLS CLRW MOVL RET	LINE DESC	1465 1465 1467

; Routine Size: 164 bytes, Routine Base: \$CODE\$ + 0A7B

```
K 1
15-Sep-1984 23:38:58
14-Sep-1984 12:19:31
DIRECTORY
VO4-000
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
EDIR.SRCJDIRECTORY.832:1
                                                                                                                                                                                                            (9)
   1075
1076
1077
1078
1079
1080
1081
1083
1084
1085
1088
1088
1090
1091
1093
1096
1100
1101
1105
1106
1107
1108
1108
                         GLOBAL ROUTINE SYSSFORMAT_ACL =
FUNCTIONAL DESCRIPTION:
                                                  This is a dummy routine to satisfy the global reference of
the $FORMAT_ACL macro. It simply calls the real service,
which has been dynamically loaded.
                                         CALLING SEQUENCE:
via $FORMAT_ACL macro
                                         INPUT PARAMETERS:
                                         IMPLICIT INPUTS:
                                                   FORMAT_ACL_ADDR contains the loaded address of SYS$FORMAT_ACL
                                         OUTPUT PARAMETERS:
                                                  none
                                         IMPLICIT OUTPTUS:
                                                  none
                                         ROUTINE VALUE:
                                                  status returned from sys$format_acl service
                                         SIDE EFFECTS:
                                                  none
                                     BEGIN
BUILTIN
                                            CALLG, AP;
                                      LOCAL
                                            STATUS:
   1111
  1112
                                      RETURN CALLG(.AP, .FCRMAT_ACL_ADDR)
                                     END:
                                                                                       0000 00000
FA 00002
04 00007
                                                                                                                     .ENTRY
                                                                                                                                 SYS$FORMAT_ACL, Save nothing (AP), @FORMAT_ACL_ADDR
                                                                                                                                                                                                         1468
1505
1506
                                                                                                                     CALLG
                                                   0000
; Routine Size: 8 bytes,
```

Routine Base: \$CODE\$ + OB1F

1 END 0 ELUDOM

11116

DI VO

VAX-11 BLiss-32 V4.0-742 DIR.SRCJDIRECTORY.B32;1

PSECT SUMMARY

Name

Bytes

Attributes

2164 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, OVR,NOPIC,ALIGN(0)
\$OWN\$

691 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$PLIT\$

928 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODE\$

2855 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 190 1 1000 00:01.9

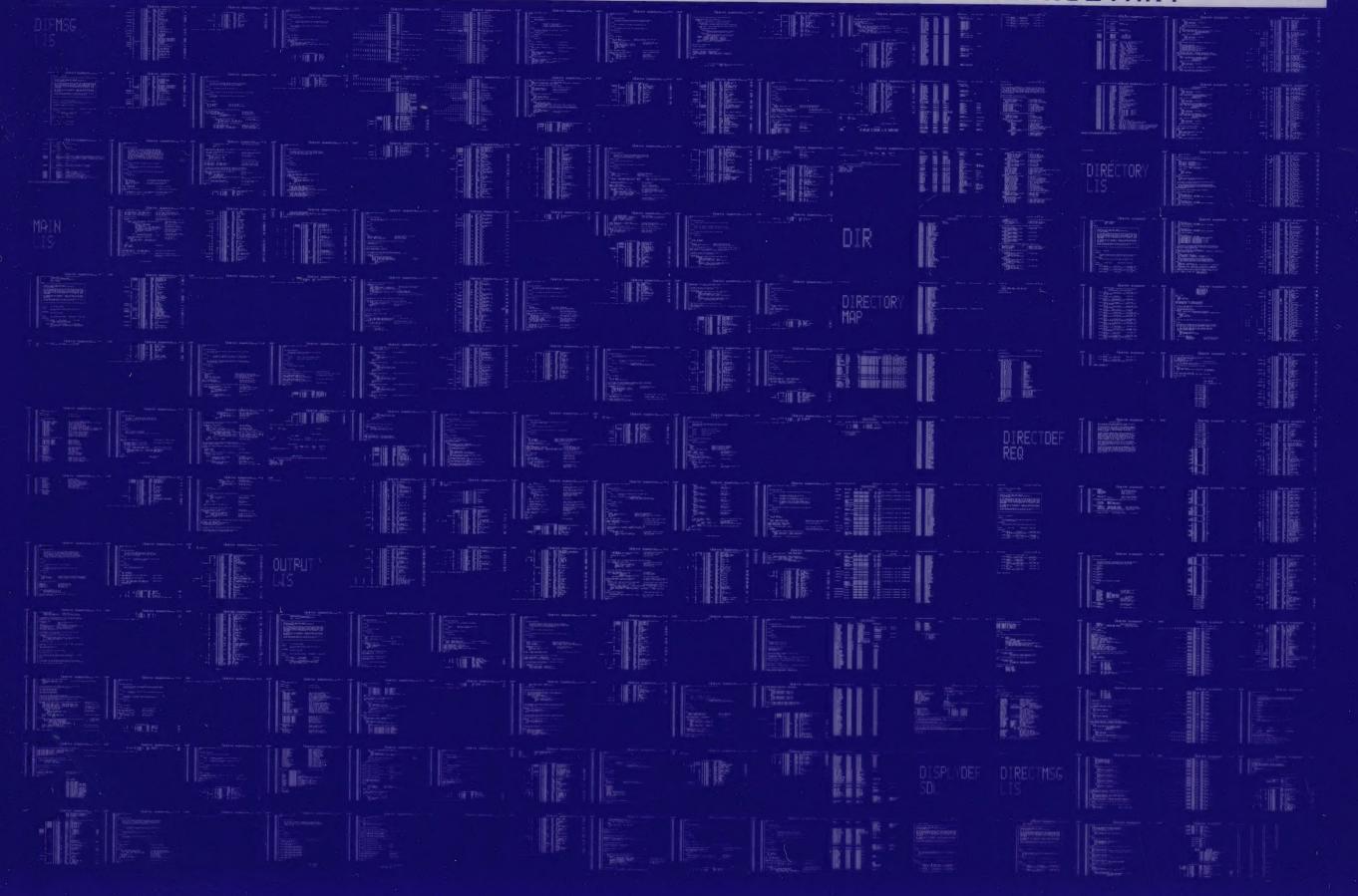
COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:DIRECTORY/OBJ=OBJ\$:DIRECTORY MSRC\$:DIRECTORY/UPDATE=(ENH\$:DIRECTORY)

Size: 2855 code + 3783 data bytes
Run Time: 00:59.6
Elapsed Time: 02:56.1
Lines/CPU Min: 1518
Lexemes/CPU-Min: 28952
Memory Used: 746 pages
Compilation Complete

0103 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY



0104 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

